

1924 -

1926 -



V24.1 Mouth of Big Cottonwood Cañon, Wasatch Mts, Utah. 5000 ft. ^{VIII. 19. 1924}

Ridges of sage brush, dry weeds & grasses, lower limit of scrub oak. (Wasatch 24.7 labelled as 24.1 J. bilob. J. maximo-originae)

melocara few in dense spots in weed & grass areas
mel. attenuatus mod. nos.

same,

mel. biwittatus 1 R same

mel. packardii few same

mel. luridus 1 H same

Lincol. rubra mod. freq. on gravel & boulders in dusty road.

Schistoc. 1 R beaten from oak scrub.

Leprus interior 1 seen, not taken.

$$24 + 0 = 24$$

V24.2 Big Cottonwood Cañon, Wasatch Mts., Utah. 6000 ft. ^{VIII. 19. 1924}

Dry grasses & weeds on steep slopes with some aspen & spruce.

D. carolina mod. nos. in flat dusty area of dry grasses & weeds.

Trine. caeruleipes rarely few same.

Cammeula & scarce same
Uel. attanis common same

$$24 + 11 = 35$$

4 beetles 2 shippers etc.

✓ 1924.3 Same as 2, 7400 ft.

Just Murbage near stream
in flat with much aspen
and spruces. Typical Canadian
Zone.

Uel. utahensis, mod nos
in Murbage. mod sluggish
but can spring vigorously
while males use their
wings for short distance. 13H

Uel. oregonensis same
same nos.

Stenotrys same but more
local.

Platypotamus same but
in drier areas with
more grasses.

Cammeula mod abds same

Uel. suffusus 2H same

Uel. attanis few in Murbage
& swamps.

Also in layer

Decanthus 1R from 24-1

• eaten from mixed oak

Sueddenia furcata 1H

from 24.2, in bushes on
steep hillside

$$55 + 35 = 90 + 2 = 92$$

✓ 1924.4 Lake Martha, Wasatch
Mts., Utah. 9500 to 9750 ft.
VIII. 19. 1924

Junk mountain Verbage.
Hudsonian zone - mixed
fir.

• Cnid habula 1H on
granite outcrop at 9750 ft.

Platybotry few in verbage
of steep slopes. Part in talus.

Stieroxys mod mos ^{noted below}
see patch only on steep
slope of Junk Verbage at 9750.

Mul oregonensis as above
& rarely few (2 only seen)

down to 9200 ft.

• Trine suppressus very few
same.

From Brighton
(Silver Lake) 8728 to slopes

of Mt. Tuscarora at 10450
Butte was exceedingly rare
except in the single patch
of not unusual vegetation
discussed above.

mel attains 1 $46 + 92 = 138$

✓ 24.5 Lake Catharine, Wasatch
Mts, Utah 9900 to 10100 ft.
VIII.19.1924

Hudsonian Zone. Firs &
granite slopes & patches
of bush veget.

Platybotte 3 at 10000 &
10100 ft. all H

Mel. graysonensis 1 at
10000 ft. R

$$138 + 4 = 142$$

3 Carabids under stones
in moist spot near lake
at 9925 ft.

Bumble bee at 10000 ft.
No orth whatever seen
from 10100 up to 10450 ft.

✓ 24.6 Same as 1 but not
^{salt} on lake bench at 4800
feet. VIII.20.1924 scudder 1

Dissot spure 1 R
3 vesper 3 H in rabbit weed
1 mel richardi R

$$142 + 6 = 148$$

✓ 24.7 Valley 7 mi SW of Tonopah, Nev.
Elev. 5300-5400 ft. VIII. 22. 1924. Emeralda Co.

✓ J. latimincta ✓ 1R 1H all seen

• J. cristata gr. very few.

J. albescens gr., flew low and swiftly, much like a Heliothis, but with a decided whirling. Emeralda Co.
Parched plane of low small
✓ + hymenoptera — desert bushes & bare soil

24.8 Paymaster Canon, Lone Mountain

Emeralda Co. Nev. 6200 ft. VIII. 22

✓ Parapionula 2R 1H 2 oil beetles

Aqueoctellix 1H 1 leafhopper

Cordillacris 1R

• All in gully at summit of
pass, gravelly soil with
dense bunches of short parched
grass.

✓ 24.9 Clayton Valley, 2 mi S of
Silver Peak, Emerald Co.
Nev. VIII. 22. 1924 4350 ft.

Edge of saline adobe flat.
Clumps of Atriplex and other
desert bushes.

Arctiura 1H came to fire
light just at dusk.

• Stagmomantis 3 ad light

Hesperotettix 1H on heavy
dump of wash rabbit brush
myrmecophilous also

$$148 + 12 + 5 + 4 = 169$$

V24.10 Silver Peak, Esmeralda Co.
Clayton Co. Nev. 4388 4375 ft.
VIII.23. Valley

Eucryptolophus in salt
grass, *Distichlis*, about on
tule marsh on edge of dry
lake. juv. mod common
1 ad.

Also *Danesei* flier @ 1 Sept.

$$169 + 8 = 177$$

V24.11 North end of Clayton
Valley, Esmeralda Co. Nev.
4400 ft. VIII.23

Soil of gradual
gravelly draw with
bare ground & frozen
strips, *Grayia* etc.

Eumopedes 18 ft beaten
from composite bush

Agrostis mod common
in bushes, particularly ^{those} of
triplex with dried
branches

Melospiza et *Geothlypis*
juv 18 same

$$177 + 8 = 185$$

✓ 24.12 Paymaster Camp,
Paymaster Cañon, Emerald
Co. Nev. 4900 ft. VIII. 23

Gravelly wash, bare
soil, with clumps of
composites

Tephrosia 1H

Helianthus annuus 1R 1H
1 leafy top

~~2~~ $185 + 3 = 188$

✓ 24.13¹⁴ alkali Spring, n
of Montezuma Mts.
Emerald Co., Nev.
VIII. 23. 5100 ft?

$188 + 1 = 189$

Stagnonema 17 H
center from composite
along edge of stream
on alkali ground.

✓ 24.13 Spr. of June Mts
east of Paymaster Cañon
5600 ft. Emerald Co. Nev.
VIII. 23.

near summit good

• A rock magnesian
desert scrub & small
patches of dry grass

Species 1 R 1 H

Hesperister R, 1 specimen

It is

gracile-leg Tenebrio

Very few are now fragments

Pachosomus 17 R

~~beetles~~ from. head less
fresh.

Figured mod nos 1 H

✓ Saxopomala occurs in

grain patches

Amphitruus 1 H same

$$186 + 17 = 203$$

24.14 see before 24.13

✓ 24.15 McLaughlin Well,
E of Hildfield, Nye Co., Neo.
5881 Jd. VIII. 23

Drainage wash with several
heavy composite brush sps

Hesperomachus terminus 1 R

and complanatus gr

mod nos locally

True blue leg found in

a pair of beetles composite

in a low weedy desert
land.

Trinia latipasc 1H one
gravelly bare spots on
hillsides - Very active &
very individual.

Trinia strimma gr. locally
in small numbers, same
24.16 Cañon W of Stonewall Valley
Nye Co., Nev., 5700 ft VIII. 23

Desert hillsides & draws
of Grayia etc with a good
scattered growth of Joshuas

Stagmone at light

Aclophus erumafila 1
attr to light - came jumping
in

Leprus at ⁵⁹⁰⁰~~6000~~ ft 1 R

Trimerotropis same 1H

$$203 + 11 = 214$$

✓ 24.17 Stonewall Flat, Nye Co., Nev.
VIII. 24.1924 4900 ft

Bare gravel with much small
Sarcobatus etc.

Aclophus erumafila occur
in Sarcobatus, only sp at 4900

$$214 + 3 = 217$$

[1 ♂ 2 yellowish ♀

✓ 24.18 SW slope of Cactus
Range, Nye Co. Nev. VIII.24

Astilbes 1H in small
gravelled & Atriplex at 5300
Lepus very few near
rock fragment ridge in
small desert brush at
5800 ft

Agrostis 1 same
Trin greenish/leg few
on gravel ridge among
desert brush at 5800 ft
Halestis aridus 1H on
gravelly wash 5800 ft

$$217 + 9 = 226$$

✓ 24.19 Road Cañon, SW slope
of Cactus Range, Nye Co Nev.
VIII.24 6350 ft.

Lepus few among
desert brush on gravel
Trin green leg very
same

Trin very about bare
ground at spring.
Mel aridus mod no

in straight green stems
very fragrant desert
brush all

Mel. complanatus gr 10/19
in large rabbit brush.

$$226 + 14 = 240$$

✓ 24-20 Cactus Range, Nye Co.
Mo. VIII-24 "Flat" at summit
6800 ft (Chart incorrect)

Lepidobates bruni 1H
sitting on top of a small
composite

Corkillacris 1H in small
area of tufts of short heavy
grass.

Stenaptura 2 juv H same
esp. no truncatus few in
large clumps of composites
Mel. complanatus gr. few
same

Trin. quercus 1 juv small
nos. in gravelly areas

Pitandrea 1 juv R are

• bare ground among
clumps of brush

Eulophus 1 FR, driven out
of a composite

$$240 + 21 = 261$$

And aridus 1H

✓ 24.21 Cactus Spring, Cactus
Range, Nye Co Nev. 6400 ft
VIII.24

I. strimma mod no
locally in gravelly wash
w a few composites below
spring which slightly
flying

I. bluish leg small
no dance. almost
crackles when flying

I. rufic dance near
habitation & needs
H mod Terminus 1H
in composite
And compl. gr 2H dance
Centrop 3 drowned in
spring

$$261 + 23 = 284$$

3 Elodis drowned in
spring, 1 Crematocid

✓ 24.22 S end of Cactus Flat
Nye Co Mo 5400 ft Sandy
gravel w much fine
dry yellow grass &
desert brush.

VIII.24

Asplasia 1 R

Cordillaria 3 H

Gymnotella juv? 1 H

Trin blue Egg 1 H

Trin strepera juv

✓ Paropomala 1 H

Trin cristata small

Colony

Geoloph crum 1 R

Trin latimista 1 ♂ 5500 ft!

✓ 24.23 $284 + 21 = 305$ & $1 = 306$

W of Kawich Range, Nye
Co, Mo. VIII.24, 5400 - ⁵⁸⁰⁰ 6200 ft

Flat of sandy gravel
becoming gradual slope
w desert brush & some
fine dry yellow grass

✓ Mentzer superum on
sandy gravel in area
of fine dry yellow grass
1 R 5600 ft 1 H 6200 ft

Cymatopteris very few at
6200 ft. usual

^{Paraphymene}
Ranunculus 1 H same
at 6000 ft.

Trillium blue-ly very few
5600-6200 ft.

Trillium latei few at 6000
ft.

Cordillanthes 1 H at 5600.

$$306 + 10 = 316$$

✓ 24.24 Granite Spring,
Kaibito Range, Yucca Co. Ind
VIII.25 7100 to 7500 ft.

Trillium cyanipervum usual
7200 to summit of small
peak 7500. Berce. fringed
among sage, a little white
mallogamy, no trees. 5R
others all H.

Sepium 1 at 7200 ft.

Trillium mixta 1 weed area
at spring.

Asplenium 2 in small
area of fine dry yellow
grass on hillside at 7400
Straplia 3 juv same

mine bluish by 3 up to
7300 now 7200 ft.

1 neuropterous
7 beetles

$$316 + 26 = 342$$

✓ 24.25 Kawich Range near
Gold Reef, Nye Co. Nev.
6100 to 6400 ft VIII.25.

Lupinus 1H gravelly low
ridges, bare except for desert
bush & a little ~~fine~~ dry
grass.

Amphip 1H 6400

Neotoma imparis 6100

Cordillaria in grass 6400

✓ Dipodomys yellow in
yellow grass, gray in
gray grass, dark gray
in dark gray desert
brush 6400

Agrostis 6400

Trin yellow 6400-6500

Perovskia caroliniana is
few in bare dusty areas
at 6100 ft.

Geolophus crumax in
desert brush at Gold
Ried, 5900 ft.

$$342 + 19 = 361$$

✓ 24-26 Kawich Valley near
mouth of Indian Spring
Valley, Nye Co. Nov VIII. ~~25~~ ²⁵

Sandy gravel slopes
with desert brush &
areas of much short
grass

Quercus impressa mod
nos in small grassy
clump at 6000 ft.

Cordillaria occidentalis same

Agave

Trichostema virgata local small
colonies

Monarda carlinii & scarce
at 6100 ft. 2H

Geolophus crumax 1 in
desert brush at 6000

$$361 + 35 = 396$$

V 24.27. Indian Spring Cañon
Belted Range, Nye Co. Nev.

V III. 25. Mountain area of juniper & pinyon

● Trim cincta 18 H Small
colony in cabin dooryard
below spring 6700 ft. ^{large} ^{much} ^{pinyon} ^{juniper}

Trim cyanipennis few

at lower spring 6700 ft.

Trim blue ly few in
dry flat at 6800 ft.

✓ Canapomala 1H same

✓ 24.28 $396 + 6 = 402$

● Kawich Valley west of
Belted Range, Nye Co. Nev
VIII. 25. 5800 ft.

Much varied desert
brush & composites &
some dry grass.

Laqiostris gillettii 17 R
jumped from dead desert
brush into a bunch of
composites & grasses

● Arphia 1H see above
Liguro 1H Very few in
desert brush w no leaves
esp new Arphia in composites

Trin. griseus leg fed
in gravelly areas

Trin. latic 1 small
colony.

Cordillarius 10 fed in
dry pine grass areas.

Agamothus occasional
none.

Nat. complanatus gr 1 ad
2j thin brush in wash
Must. Myrmica 10 fed
in pine grass.

✓ 402 + 27 = 429
24.29 ^{West} ~~East~~ base of Belled
Peak, Uye Co. Ned VIII. 25
6700 ft. Broad valley
flat, gravelly, mesquite
sage brush, tufts of
yellow grass. Fed junco
& fewer piñons.

Trin. cyaneipennis 2
on gravelly hillsides
w junco & sage,
ground almost bare
A. carlinianus 1 R as
above, on flat.

Tringa graminea leg same
occasional at

● Empidonax same 1H.

● Capnobates bermeri 27^H after
dark in small junipers.

Oreopedes 10^H 17^H after dark,
in coitu about 4 ft. from
ground in small juniper

● Aglaothorax 20^H after dark
in uppermost cluster of foliage
of junipers, about 8 ft.
from ground. Over

● an area of about two
acres with a small grove
of these trees a colony of
prob 20¹² ♂ was located.
Soon after dark their vig.

strid could be heard,
but on the first approach
out one of the loudest
ceased their scrapping

● zit-a-dit and did
not sing at all later
in the evening.

Psychromastax 1 ♀ after dark
resting quietly on cluster
of juniper foliage about
4 ft from ground.

Tamias 1 juv R after to
light at night.

429 + 16 = 445
N. end Emigrant Valley, Lincoln Co.,
24.30 White Blotch,
VIII. 26. , Mo.

High sage brush flats
6000 ft ^{alt} no, nest on adobe.

Perroch carlinensis 1 H
only one seen

Trine strepera 1 ♀ 2 mi N of
ranch at about 5700 ft.

All others in wash 6 mi
south of White Blotch at
5300 ft. Wash bordered
with large tall clumps of
green composite, elsewhere
a varied mixture of large
desert brush & a smaller
finer clump composite
deep yell Terminus mod

nos in large composites
Helianthus aridus few in
gravelly wash at 53-5400ft

● Acoloplex med vine H, very
few in desert brush

Asplia crassa 1 ♂ H among
large desert brush in area
w a very little grass at
5400ft.

Ligustrum mod common
in spring leafless desert
brush at 5300

L. vine 1 in wash

● Uel complanata 1/2 few
in composites at 5300, 17 in
sage brush at 5000ft.

Prun blue-leaf 1 H 2 mi NW
of White Blotch at 5800ft

Carpobolus 1 H perched
& straddled out on top
of small bare desert brush
at 5300.

Plagiostera 3 in large
green composite, 1 in small
yellow green " , 1 in stick-like
desert brush (Ephedra?)

Atilopius tridulatus in
leafless thorny desert bush
Idiostatis aequalis?

Accum in large green
~~desert shrubs~~ composite,
1 in. Ephydra? (stems like
green bundles of stems)

Pseudoserpylla 1A beater
from a composite.

$$445 + 45 = 490$$

✓ 24.31 Shadow Ranch, Sand
Springs Valley, Lincoln
Co. Nev. VIII. 26 5300 ft alt.

Aerobica carlini very few
in adobe spots w/ solid
small composite only veget
at 5000 ft.

Trin blue-ly^{sp 2} colony on
sandy adobe covered w/
small composite & a very
little grass at 5300

Musobrynea few seen
Cordillera 2-53-5400

$$490 + 15 = 505$$

✓ 24.32 Pine Creek, Quince Canyon.
Quince blue Ceg 10th 19th H Very
few on bare gravel
among juniper & piñon
6550 - 6900 ft.

✓ Range, Nye Co. Nevada VIII. 26
D 27, 1924.

Aglaothorax 1H. Mod nos
in rather large junipers
but as usual very wary,
shuddering, but not
nervously for some
time after dark and
again toward midnight
at 6550 ft.

Idiostatus aequalis 17
came toward light jumping
from area of sage brush
at night.

Cordilleria 1H in scant
yellow grass among sage
at junction of Sharp & Ely
Roads, in Garden Valley,
Trinch County, Ned.

$$505 + 5 = 510$$

✓ 24.33. Sharp, Nye Co. Nev.
VIII. 27.

6900 ft

Cordillactus mitis sp. 1♂ H
1♀ R ^{6800 ft} In sage brush with
scarcely any grass at all.
Trine blue-leg juv in
gravel of wash 6400 ft ± (6500 ft)
Trine cyanipes occasional
in sage brush. Between
bushes in bare spots 6800
Orphnia 1 H same ^(only sp) 6800 ft
Trine cyanipennis 1 R
same as caeruleipes 6800 ft

$$510 + 10 = 520$$

✓ 24.34 Cherry Creek Cañon, Trine
Cañon Range, Nye Co. Nev.
7700 & 8400 ft VIII. 27

Circotellus juv in boulders
of dry stream bed at
7700 ft.

Trine cyanipes occs
in open spots of sage
brush at 7700 ft and
in open w a few cupressus
in sage brush area at

8400 ft.

Trine suffusus 2 ad

8400 ft same.

Trine vici 1 juv H same

Xanthi 1 juv 1 H same

$$520 + 17 = 537$$

✓ 24.35 Road to Sharp, Summit
of Durium Cañon Range
Divide 8600 ft VIII. 27

Very dry slopes and
much small plants
and grasses (dry) of
Canadian zone - The
pinon & sage goes to the
summits however

J. vici see above all
summits

Ceriodictya 2 same

Stenotritia in the areas
very small plants

same 3 H

Trine cyanipes same

$$537 + 13 = 550$$

✓ 24.36 At Spring, Quinn
Canyon Range Nat:
6650 ft.

Aglastionea occur in
juniper, as wary and
difficult to locate as
usual VIII.27. 1H

Erigeron carlinianus 1H on
bare above between sage

$$550 + 2 = 552$$

✓ 24.37

Railroad Valley, 8 mi north
of Nyala, Nye Co. Nev.
VIII.28 5300 ft. ±

Trine blue-ly. sp. 2 Trine
on gravelly ground w
very little yellow grass
and a small low
growth of desert brush
Cordylanthus 2H saved

Mustela implexura 1♀H

Trine cristata 1/2 1H
on bare ground edge
of sarcobatus area
& 1 mutilled

$$552 + 11 = 562$$

24.38. Butterfield Springs, Nye
Co. Mo. 5000 ft VIII. 28

An sarcobatus flat
of a sandy adobe, &
locally much coarse
short green grass.

Tri latifolius locally
mod numerous on bare
ground betw patches
of grass & sarcobatus
brush.

Tri alkali white of Rare,
much work to get
series - as above but
partic on alkali.
encrusted bare spots.

Opelia few in grasses
Parop. wyomingi 1H same

Mel atlantic common
in irrig alfalfa area.

Trium cristata 1H on
bare ground between
sarcobatus bushes.

Acropl very few in
~~sarcobatus~~ desert brush
Agrost few as Opelia 1H

$$562 + 38 = 600$$

✓ 40 m below
24.39 Currant, Nye Co Ind
6000 ft. VIII. 28

Hillside bare w small
& very dry desert brush
Trepidulus colour at
foot of hill. 2R 13H

Mul cinereus 1H in brush
There was not car 1 sum, not
temu 600 + 16 = 616
corral

✓ 24.39 Blue Eagle Spr.
Nye Co. Ind. VIII. 28

Trim blue by sp 2

Trim latic 2

Trim rupe 1

Parcobatus flats as
at 38.

Trim. pseudopascua
2H in short green grass
on adobe soil in
front of ranch house.

Trim perplexa gr 1H
on bare adobe between
parcobatus bushes

1 Cerambycid

$$616 + 6 = 622$$

✓ 24. 341 Currant Summit,
Horse Range, Wyo. 7300 ft.
VIII. 29

Trich cyanipennis mod
mos on rock fragment
slope betw juniper &
pinon is little grass.
Hesp gill Terminus 1#
same.

Cordillacris 1 same, not
taken.
Agaveotettix 2 same not
taken.

Deccanthus from sage
brush - This is prob
the same I heard in
sage brush at 24.

Morsea 1 R₁ ^{beating} ~~1~~ sage brush

$$622 + 10 = 632$$

✓ 24.42 Horse Range above
(S of) White River

1 mi North of Curraet
summit, Horse Range

Nov. 7350 ft VIII. 29

Stannutria 17H on trunk

of Juniper, the bark of
which it exactly resembled
near light. It had seized
and begun to eat the
noctuid (paired with it)
then captured.

Aglaothrips strid in topmost
tuft of juniper foliage in
a large tree 17 ft high
only one noted.

Trin gracilis very few
among sage brush.

Chalcids or same.

Trin blue-leg very few
on pebbles of wealdy
defined wash among
sage & composites.
Agrostis horum juvino

area of scant grass (yellow
Pseudoserpylla 1 little to
camp fire

Morpha need not be
mountain material
Trin cyanipennis few
in bare rock fragments
& soil of Pollicaria is
much grayer & a little
grayer.

Med cuneata 19 after
to camp light.

Herp gill terminus is
few in composita in
wash

Occultus fair not
in sage brush.

Cardillacis very scarce
in scant yellow grass.

$$632 + 53 = 685$$

✓ 24.43 Barnes, White Pine

Co. No VIII. 29

Trin crut gr 3 in bare
spaces Actis sage brush.

$$685 + 3 = 688$$

✓ 24.43 44 Footfalls of Egan
Range, White Pine Co Nev.
10 miles south of Ely
VIII. 29 7600 ft.

Trine cyaniflorus very
few on juniper & pinon
slopes.

Cordill 19 only found
in freq small bunches
of fine yellow grass there
Mel. cinereus 19H.

Trine Pinus 10R

~~24~~ 688 + 6 = 674

✓ 24.45 Same bed 8 mi
south of Ely at 7800 ft

Aerob. carlin 1H in
adobe dust in road

Derod 1R others H colony
in small weeds growing
scattered over adobe
beside road.

Trine gracilis in sage
brush area

Cordill 2 same when
there were a few small
tufts of fine flow grass

Red porchii orientis 1R under
dead stiff bush among
sage brush.

$$674 + 12 = 686$$

✓ 24.46 just below road
summit s of Ely in Egan
Range. (About 200 ft lower
summit 8000?)

Cercotett very few on
gray rock and bare
gray soil slopes.

Trin gracilis in sage
brush at summit.

Nel atlantic gr. in
mountain plants
is small ^{is some} ^{short} ^{& fine yellow} ^{grasses}
Trin cyaneus few

There

Cordillaris 1R There

a diorum few There 167H

Nel aridus 17H There

Amphit 29 There

$$686 + 24 = 710$$

V24.470^W Road summit
Shull Creek Range,
White Pine Co. Nev.
VIII.28 (7900 ft)

~~Ampelis 2 ♀ H semi-bradleyi
in tufts of fine yellow
grass on mountain
slopes in opening of
much juniper & some
pinyon. One attempted
to hide by burrowing
down into the grass
clumps.~~

Cristella 2 H on bare
soil & rocks there.

Redalmond 10 H in small
crusky bushes less than
a foot high there
Trine? 1 juv

$$710 + 6 = 716$$

✓24.48 E of Road Summit E
to ~~Malaga~~, Shell Creek Range
White Pine Co. Nev. VIII. 29
8100 ft.

231 (24.5)

Trim blue by few
Durostema locally in
small numbers
Trim campensis 1 only H
Nut aridus 1 only H
Red & orientis 1 ♂ 2 ♀
Hesp new terminus 1 ♀ only H
Cordill very scarce, all H
Aquilot few

All above on hillside
with sage & a mod
growth of fine dry yellow
grass - Some juniper
& a little pinon & nut
mahogany

Rupr 20 all H. In
draws where the fine
grass was thickest
Mel micrus 2 ♂ 2 ♀ H
Stenopelus on bare ground
in wash

$$716 + 47 = 763$$

✓ 24.49 Spring Valley, White
Pine Co. Nev. Opposite
Escuela 6350 ft. VIII.30

S. microstachya salt grass
of alkali flat area

S. cristata 10th among
bushes

$$763 + 2 = 765$$

✓ 24.50 Mouth of valley
making ~~water~~ western
part of Sacramento Pass
6700 ft. VIII.30 White Pine Co. Nev.

1 dead Plagiostria
perched on top of a
Sarcobatus bush

$$765 + 1 = 766$$

✓ 24.51 Near Summit of
Sacramento Pass, Snake
Range, Nev. 7750. VIII.30

Dicot Quercus nos
on bare ground among
stunted sage brush &
some sparse grass
Trine gemine leg

juv same

Agave re juv same

S. microstachya (barber) 10th

$$2 \text{ Crandall's } 766 + 17 = 783$$

✓ 24.52 E slope of Sacramento
Pass, Snake Range, Neo-
Elco. 7200 ft VIII. ~~27~~ 30
Butte Valley of Weaver
Creek.

Plagiostria 1st, running
itely in top of Sarcobatus,
many large of these buds
were examined without
result.

Quercus caroliniana all #
Very few on bare spots
among sage brush at
foot of steep slope.

Trifolium blue by all gravelly
ground among sage &
Sarcobatus.

Trifolium crist 3 R among
sage.

Yucca cuneata 17 in sage

$$783 + 13 = 796$$

V 24.53 Baker, Snake Valley,
White Pine Co Mo. VIII-30
Elev. 5850

In irrigated tract

Mel atlantic

Mel juncea - rubrum
^{are yellow}

In grasses on edge of
irrigated area.

Opuntia 17 H

✓ Parop. wyoni small near

Deslopt 2 in weedy desert
brush

Mel cucurbit in app.

Trum chist only app
on very desert pebbly
area w v small clumps
of desert brush

Agave & Jew

796 + 24 = 820.

24.54

✓ Asuola Paso, Snake Range
Mo. 8800 ft.

Rolling ridges, gravelly
^{dry yellow}
w desert grass locally
& much stunted sage
clumps of stunted

Juniperus & *Pinus*

Desmodium carlinii 2 VIII.30

● *Cordill* 1 "

Hippuris 1 "

Cnicus 1 VIII.31

Trine 1 " All H

$$820 + 6 = 826$$

✓ 24.55 Osceola, Snake Range,
N.W. VIII.31 Below mill
about 1 mile 7100 ft?

● Ridge of very small sage,
pebbles w some grass

Desmod $\frac{1}{2}$ R

$$826 + 2 = 828$$

✓ 24.56 East base of Skull
Creek Range 7400 ft VIII.31

Desmod 1 H

Trine 1 H

$$828 + 2 = 830$$

✓ 24.57 Same as 24.48 but VIII.31
a. carlinianus on limestone
pebbles among desert
bush at foot of hill

$$830 + 34 = 864$$

~~*Amplex* 1 R 10 5 H~~

✓ 24.58 near Summit &
Shell Creek Range, Nev.
Road Ely to Milford

Steep slope of limestone
fragments w patches
of dry yellow grass &
low brush at 8700 ft

All H.

Circotettix 29 17

Acrochroantes 29.

~~Trin. cyanipennis 17~~

$$864 + 3 = 867$$

✓ 24.59 Western slope,
Shell Creek Range, Nev.
Road Ely to Milford

8350 ft VIII. 31

Steep slope of loose
soil & limestone pebbles

Circotettix very few 1H 3R

Acrochro 1H

Trin. cyanipennis mod nos

Trin. blue few on
flat pebbly area at foot
of slope 2H

Dicot 2H on sage brush
above flat

$$867 + 17 = 884$$

✓ 24.60 Steptoe Valley, near
Ely, Nev. at irrigation dam
7400 ft VIII. 31

Trine crist re juv on flat
of heavy sage & sarcobatus
& composite

Trine gracilis still rarer
there.

↑ $884 + 5 = 889$

✓ 24.61 North end of Jakes Valley
White Pine Co Nev. VIII. 31
7700 ft.

Open area with good
supply of fine yellow
grass

Cordill & scarce 20' 194

Trine gracilis very few
on bare spots in adj.
sage brush.

Xanth juv few as cordill

$889 + 7 = 896 + 1 \text{ Coleopt}$

Dusost carol 1 seen
not taken in irrigated
field.

✓24.62 Creep. in low hills
w much juniper - sage
brush & areas of yellow
grass

Trine cymensis 2R
North end of Jakes
Valley, hills E of Illipah
6800 ft

$$896 + 2 = 898$$

✓24.63 Illipah, White Pine Co
N.W. # 1X.1 6700 ft.

Pasture of high dry
yellow green grass above
~~after~~ alfalfa tract
Camula small nos there
Nel attanis & scarce "

Sidhill is much bare
rock & limestone fragments
among sage.

Durot ✓H
J. gracilis few near foot of
hill.

Aerobor 10217 H Dec 24.64
 $898 + 14 = 912$

✓ 24.64 Pagonia Ridge,
White Pine Co., Nev. 7225 ft
& 7625 ft. IX.1

● Trine gracilis among
low sage brush, juv. 7625

Trine. ruficornis 1 ♀ Presy
White at foot of rounded
hill in sage brush 7225 ft

Cixid 1 ♀ R 10' 39 H Very
scarce on large areas
of bare soil & limestone
fragments among sage
on steep hillside W

● few Juniper 7225

Morsea 1 ♀ R in "Mountain
mahogany" (leafy shrub)
at 7625.

$$912 + 11 = 923$$

✓ 24.65

Monarch Valley, White Pine
Co. Nevada. 28 mi E of

● Eureka. 5950 ft. IX.1

Aerot carlini occasional
on adobe between sage
brush fringing flat

area.

Trium latic small ones
there & locally along
edge of flat area
which had a growth
of a grayish plant about
2 inches high.

Trium graulis common
among sage on edge of
flat.

Trium blue by few in
areas of pebbles among
sage.

Trium nevadense 1H there

$$923 + 36 = 959$$

✓ 24.66 Pancake Summit,
Pancake Range, 22 mi E
of Eureka, Nev. 1X.16350 ft.

Hilltop with some juniper
and a thick cover of
small desert brush &
composites of several
species.

A. carlinianus 10H there.
When it flew up it was

pursued & seized by
a very large Aspid which
grasped it as it flew
up to nearly 100 ft - it
disengaged itself in its
plunge to the ground
and hid under a small
bush while the Aspid
waited close by for
another opportunity to
attack.

Derot several nos. There

Agave a few

Trine blue by rare

Cedaleon few there in
small bushy composite
as well as in sage.

Herp new term 3# in
small bushy composite
+ pair in colic.

Mel amereus gr 1 R

$$959 + 28 = 987$$

✓ 24.67 Puito Summit Cañon,
Eureka, ^{to NW} Cal. 1x.1 6850-6950

Steep hillside with
open spots & large
patches of a small wild
oat-like dry yellow grass

Lincolnetia lobatus free
in open spots from 6850
to 6950

Neel attamis affinis
locally in small nooks in
hillside in oat-like
grass areas near
mountain bushes

Desp. no terminus 2H

Trine cyanipes much
numerous locally. The
pale individuals in the more
shaded areas.

Red portia orientis
East of Puito Summit
in canyon at about
~~6800~~ 6600 ft 17H

$$987 + 23 = 1010$$

1 yellow banded fly.

✓ 24.68 Devils Gate, Eureka
Co., Nev. 1X.1 5950 ft.
Night at light
Litanthea 2R
Ceanothus 1H

$$1010 + 3 = 1013$$

✓ 24.69 Antelope Valley, Eureka
Co. 20 mi W. of Eureka
5800 ft 1X.2

Adobe area w some
grass, much sage
& composites

Trine gracilis 1H

Trine latissima 1H

Trine reine 1H

Trine crisp 1H

$$1013 + 8 = 1021$$

✓ 24.70 Hills west of Antelope Valley, Eureka Co., Nev.

28 mi W. of Eureka
IX.2 6250 ft.

Very small sage brush
some dry. yellow grass
& composites.

Trim gracilis 2♂ 2♀ dark
ly mixed w the pale 1♂ 1♀ 24.69)

Desot & H

Mel. cinereus 2♂ 1♀ H in
sage brush

Desot 1♀ H

$$1021 + 9 = 1030$$

✓ 24.71 Hills 28 mi E of Austin,
Eureka Co., Nev. IX.2 6450 ft.

Gravelly hills with
sage.

C. calurus 2♂ 1♀ H

Trim blue-leg near R
H

Trim gracilis 2

$$1030 + 14 = 1044$$

✓ 24.72. Hilltop E of Big Smoky
Valley, 20 mi E of Austin,
Lauder Co., Mo. 1X.2
● 6450 ft.

Trinia cyanipennis 10², 17 H
on gravel & rock fragments
hillside w some sage
& no trees

$$1044 + 2 = 1046$$

✓ 24.73 ^{Western} ~~Eastern~~ min of
Big Smoky Valley, 12 mi
E of Austin, Lauders Co.,
● Mo. 6875 ft. Hills
of bare soil w dark
rock fragments - "spider
grass" Trayia etc.

Aerobis loc in small
mo Trinia blue-ley Dane

$$1046 + \overset{21}{\cancel{19}} = 1067$$

✓ 24.74 Road Summit

Joyabe Mts, 6 mi E of
Austin, Tander Co. Ned.
1x.2

Hillsides of sage &
composites. Much *Juniper*
little *juniper*.

mil atl 14

Trine cyanipes & *fad*
Trine. gracilis locally
occasional

$$1067 + 8 = 1075$$

✓ 24.75 Big Creek Cañon

Joyabe Mts, Tander Co., Ned.
1x.3 6000 ft?

Cuthoph 12 ft. Came hopping
over bare adobe toward
light at night 1x.2

Trine caruleipes mol
nos on bare adobe &
in areas of pebbles
near sage brush slopes.
The coloring exactly matched
the surface on which
they were found & pebbles

Agrostis nemoralis juv among
sage brush.

● Trin gracilis scarce,
scarce.

Mel cucullatus 1R in sage

Trin viridis 1

1075 + 21 = 1096.

✓ 24.76 Road Summit, Toyabe
Mts, 2 mi E of Austin, Toiyabe
Co, Mo. 1x.3 7218 feet.

● Trin gracilis occasional
in sage brush at 7200.

Stachys 4H in a whitish
juv sage and clump of
yellow green grass on
edge of area of heavy
grass at 7400 ft.

Mel alt in that grass
in mod nos. - Is this
allan's or affinis or
intermediates

● Camula juv there 2H
Titaneastrum 1.

1096 + 36 = 1132

V24.77 Birch Creek, Big
Smoky Valley, Fauder Co.,
Wv. 5500 ft IX.3

Dried me. Bare pebbly
soil with *Trayia* and
other small desert brush.

Trine albesens 2 IR 2H
Durotenua 2H

Trine cristata 1H

$$1132 + 6 = 1138$$

V24.78 Gilman Creek, Big
Smoky Valley, Fauder Co.,
Wv. 5200 ft IX.3

Conoza along narrow
border of green grass at
brook.

Sage brush, composites,
grayia & other brush

Aerock 1H among them

Durot 1H

Trine 2

$$1138 + 8 = 1146$$

harder than
the 77 albesens

✓ 24.79 Bownan Creek,
Big Smoky Valley, Fauder
Co., Mo. 5200 1X.3

Conozoa mod common
in colonies about green
grass near stream

Mul coupl yr 2H in
large stiff composite brush
Hesp gil terru 1H same

Derot delic 1R stuck
in radiator of car & here
it had probably been
picked up some miles
back in the desert area.

& 2 fine crambycids R
 $1146 + 6 = 1152$

✓ 24.80 Cinken Creek, Big
Smoky Valley, Fauder Co.,
Mo. 5050 1X.3

Area of distichlis with
many large composites
& bit little sage.

Conozoa generally
mod. common.

Mul atb see edge of
irrigated area.

✓ Paroponema locally
common in grass. all H
Autocara 1H. in grass
(salt grass - distichlis in
some cases).

$$1152 + 24 = 1176$$

✓ 24.81 H miles south of Millett
Nye Co. Nev. 5550 ft. ^{1X. 304}
Plagioptera 107 H. Stridulation
in top of Danobates at
night - Close - by another
was heard but was too
shy, ceasing the weak
& continuous whirring
stridulation before it
could be located.

Aclophus crenatipila 25
17 H. Hopped in to light
at night and appeared
to be blueish as they
were easily pulled up
Stenopelmatus 1R. came
into light, running
swiftly like Aglyptodes
regillatus

$$1176 + 5 = 1181$$

ix. 47 Very low flat ridge with
Grayia and other very
small desert brush &
some sparse tufts of
short dry yellow grass -
about 1/2 mile south of camp

Desotumema pinto, Rotters
H. An typical shrub
very local and all
tubers belonging to ~~a~~ two
single colonies.

Trine grayish, blue leg

● Occasional on shrub

Trine cristata very
few in more sandy
spots and also few
on bare adobe between
sarcobatus & composites
aeolop 1 yellowish ♀ in
a yellowish Grayia, 1 ~~1000~~
gray ♀ in a grayish Grayia

1181 + 27 = 1208

● 1 juv Proboescoid H on bare
shrubs, jumps powerfully
and was unusually alert

✓ 24.82 Darrough's Hot Spgs,
Big Smoky Valley, Chace
Co. N.M. 1X.4. 5620 ft.

Trine pseudopasc all #
Very few on white spring
deposit where there was
a weak growth of salt
grass.

Very few Asplenella in
rich green salt grass
forming very narrow
borders along flow-
ers of springs.

Conoza one small
colony as Trimerotropis

$$1208 + 15 = 1223.$$

✓
24.83 Millers, Esmeralda Co.,
Nev. 1X.5+6 4750 ft.

Stagnomantis 1 ♀ Very white
in middle of Sarcobatus

Aucorcia caerulea
1 ♀ dead R in a dead spiny
bush, unpaled.

Atelopiles 10' H. In middle
of a small sarcobatus
bush.

Bum stemma 20' 27 H. Very
few near dry lake on
bare shrub and one on
smooth surface of lake
at its margin.

Bum crisp Any few
on bare sandy Adobe
below sarcobatus brush dunes

mel comp areas in v.
large compositis in wash
of dry lake.

Acrop in sarcobatus &
also dry desert brush,
occasional but very difficult
to secure as they will not
leave the bush.

Durot pile 3 H on bare
shrub, scarce.

Synot very common in
sarcob. grayia, atriplex.

$$1223 + 23 = 1246$$

V24.84 Big Smoky Valley.
5 miles northeast of
McLeans, Esmeralda
Co., Nev. 4750 ft 1X.5

Area of high coarse
clumps of dry green &
yellow grass, distributed
& many composites &
sarcobatus.

Hesperotritia 1H in large
composite.

Panopoma 18R 5H
occasional in clumps of
high grass. This is a very
alert and active sp. much
more difficult to secure
than the sp. we have been
taking.

$$1246 + 7 = 1253$$

V24.85 Same but 5 miles
northeast of McLeans
at 4770 ft. 1X.5

Very gradual descent
and some wash from

Mount Cristo Range - The
soil sandy adobe thickly
strewn with fragments
of baked volcanic rocks.

Acouia caeruleipennis 1H
2 Perry White - On the at
bare ground between very
small grayia and other
desert brush.

Trepidulus 1H same

Derot. pinto juv. same

but long search for
a. car. resulted in seeing
a ser. tho ind were very
alert & active & most
difficult to follow. When
they fly up they rise but
a few inches and are
consequently unusually
wible to be missed by
the net.

$$1253 + 17 = 1270$$

see IX. 6

✓ 24.86 Miller's Flat, W
base of Lone Peak, Em.
Co. Nevada. 4720/18.18.546

Flat with large dunes
covered w. *sarcobatus*.

✓ Paraponeata mod
mos locally in high
bunches of dry green
& yellow grass, on 24.84

Sub 24/130
1270 + ²⁰18 = 1288
10
2
18
1318

✓ 24.87 Springdale Canyon,
Lone Mountain, Esmeralda
Co., Nev. 18.6 x 7

Trin. cristata 2 at 5800

ft, desert brush, including
much Mormon tea,
sand & gravel reefs

Trin. albesens gr 29

at 5800 & 10' 6100 ft

same clear of cañons

1318 + 8 = 1326
26800
101

✓ 24.88 Death Valley Jc., Inyo Co.,
Cal. 1x.8 2037 ft.

● Aucouia 20th H only on the
sun on bare rock fragment
ground among very dry
small desert brush
Also 1 skipper

$$1326 + 2 = 1328$$

✓ 24.89 Muoberry, San Bernardino
Co. Cal. 1x.9 1831 ft.

● Aucouia locally in mod
nos on wash near
grass areas, among
bushy plant (Euo. 24.89.1)
Usually lit on ground
but sometimes on bushy
plant.

● Cesolophus mod common
in brittle bushy plant
(Euo 24.89.2) would jump
down into plant instantly
when approached and
if driven out would fly
directly & dive headlong
into another such plant.

✓ Parapoukala lot in mod.
nos. ^{in meadows} of distichlis, partic.
along border where this
salt grass grew higher
than elsewhere. Moderately
active but by no means
as active & alert as this
species was at 24.84 & 86.

Opeia locally in small
nos in distichlis meadows,
partic in area of
composites where the
grass grew thickly.

Melanopleus 1H. in
meadow of distichlis

Eucoptolophus very few
but ~~also~~ gives mod nos
same, all but 1 taken
in small area where
plant (24.89.3) grew,
on ground, its brownish
reddish withered leaves
exactly matched in color
by most of these indiv.

Arphulla 3H there

Tringa latic g2 narrow wing
band. 1♂R, 2♂2♀H Very scarce
on small areas of alkali
ground, without or with
very scant sprouts or
distichis. Unlike the
usual of this group, these
were neither particularly
 wary nor did they fly far
when flushed.

Pipilo latic mod mod.
only where distichis
became much scattered,
about bare white-gray
areas of alkali. Active
and readily taken as
they were, not very shy.
~~H. ardens few on pebbly
bare waste near meadows~~
1H.

Tringa vire common, same

Boottia mod common
in creosote bush which
dotted plain thickly up
to meadow.

Synirot locally in small numbers in creosote bush, stridulating intermittently in bright sunlight but exceedingly wary & alert. 2H

Paratettix mod numbers in green short grass on narrow wet banks of stream running off from springs. juvs outnumbered ad. greatly.

Sitonaustria 1H beaten from a creosote bush.

Tamnocerus beaten from a small compact bushy composite growing near border in desert's meadow 1H.

$$1328 + 138 = 1466$$

24.90. Daggett, San Bernardino Co. Cal. 1x.9 2000 ft.

Coccinea locally in mod nos on bare sand on bed of Mocha River where it was dotted with a peculiar green

plant \downarrow (Euo. 24.90.1)

Some few flew from this
plant while others, when
pursued, flew into it. I
think it more probable
their food plant than
short grass (as I had
previously supposed) as
the latter was absent from
almost all of this area.
Due to their coloration,
alert and swift flight,
they are difficult to follow
& capture in the intense
sunlight of their invariable
habitat. Tho' they seldom
fly more than short
distances (6 to 15 ft). 46749
R, 90759 H

Melamp. Herb gr 3H in
dense green composite
growing on bare burning
shale sand of Neojine River
bed.
assautus 1H, there also
1466 + 26 = 1492

✓ 24.91 Yuma, Ariz. 1x. 10
150 ft.

night at light
Cephus a few

Arumivaga 1H

Conozoa 1R

Umbinus occasional

Arctia Insara 4H, one
at light. The others in
mesquite trees, where
the stridulation slowed
them to be moderately
plentiful.

$$1492 + 18 = 1510$$

✓ 24.92 Dome, Yuma Co. Ariz.
1x. 10. 190 ft.

Schistocerca vaga 1H on
bare desert w/ greasewood
& other desert weeds, 10 mi
E of Yuma.

Boletix 1H same, very
scarce in greasewood

Trine cyaneus 1H
about 100 ft above RR in
bare foothills of Hila
Range. Slopes of

rock Maynutes in desert
various & occasional
Atriplex Gymnocarya &
a very scattered supply
of desert plants & grass.
Syllitole 1H 2 seen same
but 30 ft above RR
Sitacutria 1H same and
1R in brush on Gila River
bottom.

Ammonia few in desert
brush up to 30 ft above RR
in foothills & occur along
river bottom.

Ligustrum mod common
in brush along edge of
Gila River bottom, partly
dead clumps of arroyo
& in greasewood on flats
~~Dead~~ Trepid rosaceus 2H
on bare adobe flat there
Paropomala 1H in tuft
of fine dry yellow grass
in arroyo of foothills of
Gila Mts. 30 ft above RR
Melanoplus 1 juv in desert
brush there.

Conozoa ~~not~~ numerous
among yellow weeds &
grass-like plants in
Gila River bottom.

Mel. glauca 1H in
arrowweed thicket, Gila
River bottom.

Mel. turberculosa common
there.

Schistoc. gossypii common
in higher arrowweed
there.

Helastus very few
on pebbly wastes

$$1510 + 36 = 1546$$

✓ 24.93 hills Imperial Co., Cal.
sand dunes, 20 miles west
of Yuma, Ariz.

IX. 11

Elw. ab. 250 feet.

Insara coellae 1H
flying across dunes
into a greasewood.

Boottia 2R beaten from
greasewood.

● Acrona minima in
blue-gray bristly sand
plant growing from
to 3 ft high. Sometimes
none, sometimes more
than a dozen in one bush.
Exceedingly alert, difficult
to see and often flying
some distance, the sp
was, however, easily taken
as they could be readily
driven out of bushes
onto the sand, 10♂ 3♀ R
13♂ 15♀ H (plant 24.93.1) Hale

~~10~~ Drosophila delicatulum 1H
on usual plant (24.93.2)

$$1546 + 36 = 1582$$

✓ 24.94 Sandy wash north
● of small mountains
about 14 miles west of Yuma
(North of Pilot Knob, Imperial
Co., Cal. ab. 250 feet
IX. 11)

Desot delic very fine
in same bush as 903.

Liquor 2H common
in greasewood

Hel. minimum 3H, in
Arctostaphylos bush & other
species of desert brush,
the yellow one in a strange
spiny broad-leaved
prickly flowering bush.

$$1582 + 10 = 1592$$

✓ 24.95 Blaisdell, Yuma
Co. Ariz. 1X. 12. 188 7P?

mixed sand & adobe
formative dunes.

Halestus minimum 7H
in plant 24.93.1. few
in scattered growth of
Arctostaphylos 1H at night
on ~~the~~ "white acrobasis
bush".

Desot delic 1H, on
usual bush, the very
other desert brush growing

in this area (24.93.2).

$$1592 + 9 = 1601$$

✓
● 24.96 Washes in Yuma
Desert from Hita Mts.
4 to 6 mi north of
Fortuna, Yuma Co. Ariz.
IX.12 400-500 ft.

Boottia 2H in grass.

Syntherisma 1H ~~at~~ occas.

same.

Trinacria 1H only

● one seen on bare
rocks w desert varnish

Helianthus aridus 1H

pushed up, in a pale
verde and one seen
nearby on wash.

Dendroica 2 in usual
bush (24.93.2)

Uel aridus group, 1 R

● Geater from bush (24.96.1)

$$1601 + 8 = 1609$$

24.97 Fortuna, Pila Mts.,
Ariz. ⁷⁵⁰⁻ 800 ft 1X-12.

Bare rocky hills with
a sparse clothing of
greasewood, several desert
brush sps & several sps
of clumps of desert weed-
like plants.

Sigurot 1R beaten from
greasewood

Boot 5 very few in same
Mel aridus gr 1H found
in same but almost
certainly from one of
the nearby desert grazing
small brush.

Parabacillus 1H beaten
from a tuft of a yellow
weed-like plant about
70 ft above camp on
hill.

$$1609 + 8 = 1617$$

J24.98. Roadside Mine,
Coyote Mts. Pima Co., Ariz.
IX.14 2800 ft. ~~2900~~ ~~2900~~

Gravelly plain with
much short grass, dotted
with mesquite.

Hesperotettix common
in composites.

Mel. desulcatus very
common, same.

Cordillaxius all H very
few in gravelly spots
with grass

Acrotenua all H same

Mestob. capito occasional
same

Mestob. townsendi mod
nos over plain

Trine. streperus few, same.

Yersinia mod nos same

Filamentaria 17 H same Is

at light IX.13.

Stagmom. at light IX.13

Prunivaga same

Paropromala very few
in grass on plain, all H

Uethusa 1 J R beaten from
rabbit weed,
Aegmottella all H very
few on grassy gravelly
plain

$$\begin{array}{r} 1617 \\ 155 \\ \hline 1805 \end{array} + 188 = 1805$$

✓ 24.99. Komatik, Pima Co., Ariz
Lahoguinari Valley
2150 ft $1 \times .14$ over corr
2550
Aegmottella spp? Several
on granitic hillside with
about grasses & various
buds of shrubbery. ^{1 R. other H}
Lyrus few same
Pseudosynyle 1 H beaten
same
Aegmottella australis
very few same
Acanthus all H mere
a few under shrubbery

on hillside.

Mel. Scirpus 1 H on
hillside above Berg 1 R
Conyza carinata few
near base of hill H.

~~Mammillaria~~ Mastobryonia gravelly
wash is a little grass all R
Trifidulus on mud
flat all R

Cordillaria on hillside
in scant grass H

Sch. mexic. few in palo
verde on hillside

Stemmatia 1 R

Spernia few on hillside
in scant grass.

$$1805 + 71 = 1876$$



24-100 Fortification Rocks,
Baboquivari Valley, Pima
Co. Ariz. 1X-14 Elev. 2500-2900
^{Querc. 1000-29-3300}

Pae. pantherinus frequent
in green shrubbery of
this volcanic hill, found
in palo verde near its
base R about 6.

Schist mercuria common
in acacias.

Schist aliole found in
same. all H

Coualcaea occasional
in mtu shrubbery. all H

Diaphnocrura very found
in low mimosas & acacias
all H

Parabacillus same,
beaten from grasses. all H

Tajnomantis all
beaten from mtu shrubbery
& mules, all H

Sch. vaza 1H in mimosas

Mel. desultarius mod
noo in mtu shrubbery

Acacetherus scarce
in dead twigs under

with shrubbery - toward
base of hill all H.

Eligonyx 1 JR on ground
at base of palo verde at
foot of hill.

Mustela all R at foot
of hill on broken rocks
& silt.

Eumeces 1 JR (opulent) same,
1 H on hillside.

Syrph 1 H at foot of hill
among shrubbery

Cyclops 2 H between fence
hillside shrubbery

Sperm spec on rocks
at foot of hill.

Hesper perthuis 1 H few on
mtn. shrubbery

Perognathus 1 R on flat
in low weedy place

V. small juv Dendroica
1 H between fence mtn.
shrubbery.

$$1876 + 89 = 1965$$

† 24.101. Haudreides Canyon,
Baboquivari Mts., Ariz.

2800 ft 1x. 14 night at
light. ————— ever corr 3200

Stagnomantis 2 sps

series of s

Spong. apiciductata 1

Doru duicare 1

Dryllid ~~sp~~ ^{sp} for

us. The granite boulders
stridulating Tschmitt — ~~and~~
only moderately loud
but high pitched,
penetrating & resonant;
given at short intervals.
About a dozen were heard
in 1/2 mile. All located
were on depressions or
between granite boulders
always near their summits.
They remained motionless
until very
close, but attempt to
fly. Failed several times
so they were able to escape

with lightning like
agility. Had they not
been so fearless, ~~and~~
until closely approached,
& remaining motionless
almost always until
an attempt at seizure
was made, they would
have been almost impossible
to capture. Their dark
color was in sharp
contrast with the light
granite boulders & when
the light was thrown on
them.

Sch m 1 at light ^{see also}
Thurstonia 1 " 24-109 record

Thurstonia 1 "

Amphibia 1R on side of canyon
wash among rocks.

Tomonatus mexicanus 1 H ^{same}
(2 am) in shrubbery,
principally a gray leaved
bush w broad leaves
into which they would

Runge after a slow but
straight flight. They
deliberate in their movements
the surroundings were
made these difficult to
secure.

Lianutria among bushes
on ground of rounded
rocks in canyon

Holoesa occasional
on flat slope of canyon
in sand grass.

Mistob same.

Diapherom 1R beaten from
composites

Pseudoscorpion 10R same.

Genes 1R, very few
on granite slopes of canyon
among scatters adobe and
other desert shrubs.

Hypod under rocks on
side of canyon wash. 15H

Yersinia 1R no prolegs

Pan partitum 6H in
canyon wash in bush
described under Tomonota
small numbers.

Couansea humilis all H
very few, same.

Mel. arvensis few distr
in small into thin
shrubs

Beauveria 1 H, beating.

Sch. mexic 1 H as Couansea.
only 2 or 3 seen

Lactista few, as Mustob

Staphylinus 10 R 1 brown
♀ H beaten from shrubbery
along canyon wash

Enicosp. albos 10⁷
hopped into camp ^{near corner}
at light & out, ²⁴⁴⁰ 1st time
 $1765 + 15 = 2040$

✓ 24.102 San Miguel, Babogquivari
Valley, Ariz 2040 ft IX.15

Mel. desert few in camp
10⁷ Hesp. pstris same 1 R

Dicot. pedas on adobe
flat w short scrub grass 4
Musca capito all H same

2. Meperidulus few same 3
must be Meperidulus
same 6

$$2040 + 15 = 2055$$

✓ 24.103 Four miles N of
 ● Houma, Baboquivari
 Mts., ^{valley} Ariz. 1x.15 (2100 ft.)
 Very broad & gradual
 wash - flat. ^{even correction}
 would = 2500

Stachys 1 R beater
 from composites
Trine med-leg 1H on
 gravel edge of wash channel
Acanthus 2. Few in

● sticks and litter under
 mesquites on edge of wash
 channel.

✓ Sarcobatus mod nos
 in coarse bunches of rather
 high grass along edge of
 wash channel.

Figwort 2H common
 on dry dead twigs in
 ● mesquites.

Asclepias 1 pair H in
 coito on atriplex brush.

Mel. panic 1H in composite
on edge of wash channel
Trifidulus 1H on gravelly
area of wash.

Mel. aridus few in
composites, small.

Step 19 same

Poliochloa 1R as trifid

$$2055 + 22 = 2077$$

✓ 24.104. ~~Real~~ ^(2400 feet comp.) ~~Panic~~

Mts, Pima Co. Ariz. 2250

It 1X.15 ^{queroit correction} at 40 would make

Synobula 1R 2650 ft.

Trine 1H gravel ridge
near wash.

Asoplus H in Centurion
Acanthus few in
twigs & dry grass
under brush along
wash

✓ Panop same
Agrost few in
rocky copro.
Yucca 1R

2077 + 18 = 2095

✓ 24.105. Kvitak, east of Quigotoa
Mts., Pima Co. Ariz. 1X.16
1330 ft. Aneroid correction. Ligo would
make 1930 ft.
Sch. vage 1H in green brush
& grass in wash.
Scyllium 10 juvs H in ripe
fine green grass in wash
Mel. lalunus abdt. There
partic in weedy spots
Mel. desultorius juv same.
Mel. scircus very juv in
all H
Conoc. strictus occasional
as symbola
Parabellus 1H beneath young
fine high green grass in wash
Pachessa occas in short
grass of flat 2 sps
Mutob same all R
Opia 1 juv H as Scyllium
Cyclops many numerous
in greasewood & other
brush on flat. 2 at light 1X.15
Oecanthus 1 at light

Staphnomus 3 at light
Amniogaster 1 " "
Insara covillei 1 "
Emptolophus 1 "

$$2095 + 48 = 2143$$

✓ 24.106 Wellington Trench,
Quijolón Mts., Aug 15-16
1750 (Aneroid, verify if
possible). ^(2400 corr) Ajo conchione 2150
Diaphanomeria bealei from
vine overgrowing brush
in waste 1H

Belia benigamini all H.
mod common in gray
rock-fragments & dry
stream bed.

Liguro 1H common in
greasewood
Boodittia all R fed in
greasewood

Psobocera two seen
almost bare ground 1H
Mel. howellii fed in
brush along waste
Trin. med. leg. Dyar
on grasses, reddest

bare ground about well
litae 1H on bare ground
among greasewood.

* $2143 + 23 = 2166$

✓ 24.107. Ajo Road, middle
of Quijotea Valley, 1400 ft
1x.16. curved connection
would make 1800 ft

Desotumna small colony
on wash locally among
tall sand yellow grass
all H

Trepidulus same and
close by. all H

Mistob 1H there

Psolocessa flat with
very many short dead
dried plants or scarce

Trine red by 1H same

Figurot 2H mod common
in greasewood but
unusually rosy & shy

Boottet few in same
all better R

Inxera willow 1R same

Duxera megara 1R better
from heads in wash

Well desert very few
in grass weeds in wash
Desantius 1R. bealer
from composite on flat
Well Salicinus very scarce
as Desert.

$$2166 + 34 = 2200$$

✓ 24.108 Batamote Well,
Valley of the Gila, Ariz IX. 16
night at light. alt 1500 ft
Arenivaga 3♂ 1200 ft
Eremobatta 1♂ at Ajo adding
Trepidulus 1♀ 1♂ 400 ft
Cycloptilum 1♂ 1♀ see after 24.130
Stagmom. 2 or 3 ap 6♂
Drosophila elegans 1
D. covilleae frequent
Boettleria mod "
Littoridina 1♂

$$2200 + 32 = 2232$$

✓ 24.109 4 miles E. of Pozo Blanco,
4 mi W of Covered Wells,
Quijotea Mts., Ariz. IX. 17
2750 ft. (aneroid corrected
Helianthus benzoinum few
on granite gravel of

wash.

Acanthaceae piperatus 1H
in mountain plants at
foot of bank along wash
Agrostis msp? 3H, scarce
among granite rocks with
very little grass on steep
hillside.

Mel latens 1H in Pecos
brush along wash

Mel aridus small ones
same.

Gynura 1H same as Agrostis?

● Trine ^{strepens} red-leg on gravel
in wash 1R

Limonium aztecum 1R On
flat bare adobe near wash
Mistobez 1H same.

Pseudotsittis msp? mod
common in a small
green bushy plant
growing along wash.
When first seen they
would usually be
vertical, clinging to the
stems of this plant. They
were not wavy but

is disturbed flew very
swiftly, circling into
cat-claw, mesquite or
other brush, but made
no attempt to hide and
often easily taken after
having first escaped
as a result 33 H 10 R
Boolella 1 R beaten from
greasewood

$$2232 + 68 = 2300$$

Plant 24.109.1 = Boolella
Plant
Schist. mexicana in Palo Verde not
24.110 taken

N.W. base of Baboquivari
Mts., Pima Co., Ariz. Elev.
ab. 3000 feet.

1x. 17. 1924.

~~the~~ Schist. mexicana 1 at
light. See 24.109 record.
Trumox albofasciata.

107 H, stridulating in mid
of composite (small stiff
species) at night, a few
others heard, they make a

at side of wash. More dry
than 27, song cree-cree-cree-
-cree Telling and more
neutrologistic, so that
they are difficult to locate

$$2300 + 130 = 2430$$

- ✓ 24.112 Mt. Mildred,
Baboquivari Mts. 1x.19
from camp level up to
base of cliffs est. 1100 ft.
1. occasional to Top 5200-6300
 2. colony in rich-high
mosses on summit of
ridge about 1000 ft above
camp. ~~5500~~ 5600
 3. juv to top 5200-6300
 - 7 about 1000 ft above camp
 - 1 juv R 5600
 - 8 mod numbers to 800
ft above camp 5200-5800
 - 11 same to 600 ft above
camp. 5200-5600
 - 12 mod nos from 500
to 800 ft above camp
 - 13 juv as 2 — 5600-5900
5600
 - 15 to top, the common
sp in the rich green
bunches of grass at foot of

cliffs 5200-6300

16 common everywhere

17 very common from
5100-5700 camp up to 6000 ft above

18, very few as 2, all H 5600

19 very common in area

of rabbit weed up 700 ft
5800

20 up as high as same
5200-5800

21 common to top 5200-6300

22, 24 H on mimosa same
as 2. 5600

27 One beaten at base
of cliffs, 19 being devoured
by a red-brown spider

at about 900 ft above camp
6000-6300

29 Conalcaea maculosa

all H, under oaks at
700 ft, no others seen.

30 Spharagemon ^{frut + modesta 5600} near

or under oaks in
bare spots 500 to 800
5600-5900

ft above camp.

31 Cynopteris 16 ft R

others H very scarce
in grassy mountain
side 600 to base of

cliffs. 5700-6300

considerable intervals a
hissing dzzzza-dzzza-
● dzzzza etc. with great
rigor but with little
volume or carrying power
and cease to ring suddenly
at the first notice of
approach. The series of
sounds are repeated only
a few times.

Schaeffer

✓ 24.114. ("Jeff") Canyon,

● Babogquivari Mts., Ariz.

1X.18. Camp. Anuroid. 5160 ft.

This number up to summit
of north foothill + 400 ft.

1 Syrbula fuscovitt 1 ♀ in
short grass & low mimosa
area near top of ridge (+200
ft from camp) 1 ♀..

2 Cicauttherus piperatus

Same environment under
twigs

● 3 Arsenicia communis saecae

4 Stagnoneustes 1 ♀ H

limbata

- 5 Sitainutria 10 H same
6 Pseudosynagla 10 H same
bed in small bunch of
rabbit weed while it shook
violently when approached
7 Aspasia crassa 10 R same,
1 juv H after, pseudosynagla under
rock on hillside
8 Agamotettix australis juv
H same.
9 Lactista all R in wash,
not common
10 Heliast curpae all R
same, very common
11 Mistob Townsendi very
juv as 1, also 100 ft above
camp.
12 Mistob rufipennis 1 H
same, only one seen.
13 Phrynotettix 20 29 R, pair
in situ, all are lower
red gravel & small rock
slopes w scant short grass.
14 Tamigopoda 3 H, 200 ft
above camp in small
cat claw and on gravel
slope w short red grass.
15 Boopendron arkap all H
juv on hillside as above

and 1 at camp.

16 Mel. desertorum general
& common

● 17 Mel. laticornis general
& very common

18 Mel. picturatus very
few on hillside with
low pebbly spots short
mosses and short grass.

19 Hesperot. pictus common
on hillside in abundant
rabbit-weed.

20 Dactyloctenium 2H never

● few as 18

21 Conabucca Humphreysii
occasional as 18, mod nos

22 Dichopetala brevicauda 1R
sitting up on small tuft of
grass.

23 Microcentrum 1H at night
making a loud harsh
drum at intervals in a
large leaf tree beside wash,
Others (a few) heard also.

● 24 Quorua elegans 1♂ H at
night, a few stridulating
vigorously in mesquites.

25 Gryllode 17 H⁺ Resting on
face of granite ledge on
side of wash, 18th Aug
(not taken) There, none
stridulating. At night

26 Hoplosphyrum common
under fragments of granite
at bases of ledges along
wash. They stop stridulating
when disturbed & are very
difficult to locate, but if
seen are very easy to
secure, making little
effort to escape. Song
a high pitched continuous
cree-cree-cree-cree, higher
& more rapid than that of
Gryllus. 40th H at night

27. Acanthus near bat. pumilio

A few in small large green
bushes or small bushes
near wash. Song a
rich resonant continuous
Till 2 H

28 Acanthus yellow weed
Small numbers on
small green weeds, plants

32 Lepus sylvaticus 10² R 500
ft above camp, on bare rock

33 Conozoa carnata ⁵⁶⁰⁰
locally common on bare
ground in flat of saddle
600 ft above camp.
5700

$$2430 + 173 = 2603$$

✓
24.113 Same as 24.111 except
1x.19. 2 labels

H in wash up about 2
miles and to summit
of ridge near Baboquivari
est 1300 ft above camp.

R up wash & hills north
of camp.

1. very few H up 1200.

7. 1 H up 1300, on summit
of ridge in area of very
short grass on gravel.

9 on gravelly margins
of wash, few, not further
than up 200 ft above camp.
10 very common on
wash, but becoming fewer
up 700 ft.

11 common generally in the areas of short grass.

12 small mos locally scarce in zone of oaks but not high elev.

13 on bare pebbles & gravel, usually at foot of hillside slopes or on hill summits, not at all common.

14. Very scarce, 1 as 7!

15. Extends down to camp but reaches ~~gt~~ abundant in rich grass well up in zone of oaks.

16 one of the commonest & most gen distributed species, everywhere, even under oaks on leaves in Tomonot young sites

17 The commonest of ^{larger} beet, confined to short grass in wash and up to 600 ft above camp.

18 Very few as 7.

19 in areas of rabbit
weed as far as 1000 ft
above camp -

20 Very few; partic-
in areas of mimosa a
few inches high up as
far as 700 ft above camp

21 general distributed
but usually in small
numbers, as far up as
we went.

30 highest - one seen

at 1200 ft above camp
in oak area.

32 One H beside wash
in gravelly area 100 ft
above camp.

33 Common locally
in all flat dusty spots
with scant grass along
wash.

34 Pectotetta paulownia

1R, others th. In broad
leaved green mountain
herbage beside wash
about 300 ft above camp
Very scarce

35 *Toumoultus ferrugineus*
juv H, in dead oak leaves
in small flat cereas
under oaks, few Keere
40 *Parabacillus*, at light
2603 + 83 = 2686

✓ 24.114. Schaeffer Cañon
Wash, Baboquivari Mts.
Criz. 1x.20 4500 ft.

Two gravelly broadly
rolling ridges with short
fine green grass & low cat claw

7 locally in small colonies

8 general, in small nos.

9 few in bare gravelly
spots near wash

11 generally mod common

13 very few, near wash
up to tops of ridges

16 general, few

17 common, general

18 mod mod general

32 few general

33 occasional in washes

34 Doopredon black 10th H

very few in ^{very} green grass
in bottoms of depressions

35 Trin Aluma 9th 1st H

bare pebbly area near
wash

36 Chumopedes albofasciatus
1 ♀ H in short grass &
nick high cat-claw.

37 Mel. atlanticus gr. few
general.

38 Dryllus assimilis?
under dry cow dung.

39 Mesobius capitatus very
few, local in grass.

40 Pellianella rupestris 1 R

$$2686 + 60 = 2746$$

✓
24.115 Santa Margarita
Rancho, Baboguari Mts.

1X.20 4850 ft. Same
general type of environment
but further from mts.

41 Hadrot trifasciatus mod
plentiful.

42 Trim. latic few
on bare red adobe
in flat portions of
area near wash

$$2746 + 54 = 2800$$

✓ 24.116 Buenos Aires Well,
Altar Valley, Pima Co. Ariz.
1X.20. 2 different labels

All but T. latic about
4 mi north in mid-valley
at 3850, well 3950

T. latic very large
colony (over 100 probab)
on red adobe with
scant green grass at
hand gate, also seen
occas in such situations
over valley.

36 fair sized colony
in short grass on pebbly
soil (no acacia or
other shrubs anywhere)

43 Cordillaris 2H saw

44 Opuntia 1H on edge
of patch of heavier
grasses

$$2800 + 93 = 2893$$

✓ 24.117. Arivaca Creek at

Punta de Agua, 1X.20

3675
3875
100. 100 high
by 200 feet

45 Paratillix toltecus

on pebbles & in short green
plants on damp ground
near water.

46 P. aztecus common same

Hel. benjaminii common
on boulders of dry river
bed.

$$2893 + 20 = 2820$$

2913

✓ 24.118 Arivaca, Pima Co. Ariz
1X.21. Rolling hills with

short greenish yellow grass
dotted with mesquite 3900 feet

Helicostoma benjaminii

few in all gravelly gulches
even near hilltops

Yersinia common

Conal murex mud
common.

$$2913 + 4 = 2917$$

V 24.119 2 mi. N. of ^{foothills of Tumacacori} ~~Blanco~~ ~~Blanco~~ Mts,
Santa Cruz Co. Ariz
IX.21. 3800 ft.

Low rolling ridges with
much green-yellow grass.
Few cat-claws? (very low
w pink flowering ~~and~~.)

Boopis & few black
9H

Erucop albol 1R 1 driver

$$2917 + 131 = 3048$$

V 24.120 ^{Tumacacori} Austerlitz, ~~Blanco~~
Mts, Sta Cruz Co Ariz IX.21
4325 ft.

Oak dotted hills, very
dry fine grass, clumps
of dry antea weed-like
plants

Coleosanthus sp.

Erucop *Brickellia*

Pecilot maxilla 2H

See also 24.129.2

in latter (24.120.1)

Settled 2 smaller
in short & green grass

in damp spot in dry
stream bed, 1 larger
● (sp common) same
site at artificial lake
at Montana Mine.

Recautis all H mod
nos in plant 24.20.1.

$$3048 + 51 = 3099$$

✓ 24.121 Hillock north of
Montana Peaks, Immature
● Mts., Sta Cruz Co Ariz 1X.21
Lepus ~~republicanus~~ republicanus IR 4900 ft
mountain summit with
oaks & a very few juniper
heavy tufts of fine yellow
grass & tangles of a
mimosa.

Recurvum pins generally
dist in fine grass tufts
up to 5000 ft.

● Opelia 2022 H same,
very scarce 49-5000 ft.
Proserotettix so scarce
tho much

Lepus mtn sp 10th only
one seen on bare Rock
among tufts of grass on
summit 5000 ft.)

Mel powder all H, very
few there.

Parabacillus mod common
in tufts of grass

Ampliclitorus D scarce some
Eublyptropidia juvs occur
& generally distr scene.

Zoophilus arisp a few
gen distr

Pec prau 1H on
same bush 24.120.1, 4900 ft

$$3099 + 70 = 3169$$

✓ 24.122 South face of Atascosa
Mountain, Paparito } Sierra de
Sta Cruz to Rio. IX. 21-22
5100 to 5500 ft.

Steep slopes heavily
dotted with bunches of
fine yellow green high
grass. Scattered oak
much plant 24.120.1 and

other mtn plants locally.

Peruvians 17, 18 R Constant
mark partic for this sp
failed to reveal others ^(see next page)

Scud mexicana occas
in grass w mtn plants
scattered thru, partic
at about 5200 ft.

Leprus mtn sp very
few on rocks on steep
grassy slopes.

Pecilot pautu very
few, usually in grass
w mtn plants where
water runs off make
the vegit slightly richer.
Dyrbula occas, generally
distributed.

Amblytropidia few
fairly often seen, general
distribution in grass
Arbunum few same

P.M. + X-22 H up to summit
of outlying crag of Abasco
(same height as Mount
Peak) est. 6200 ft.

Phyllanthus 1 juv R 2 ad 1 juv
driver others H. Food plant
found to be plant 24.122.1.
This grows in small
scattered & widely separated
patches on the steep wet
slopes. I found as many
as 3 juvs in one plant
and all but one which
I secured were perched
up in it just like Oecilotettix
like that sps also they
quickly abandoned their
bush when approached -
they leap fairly vigorously
for such soft bodied
grasshoppers, but their
movements are slow
and they seem stupid.
Dactylopsium 3 juvs seen
also seen up in this
same place; is there

any analogy in these
brilliantly colored sps
[distasteful to birds?]
receiving their protection
from the juices (poisonous?)
of this plant?

Mercuria nemex 2H
in tall tufts of fine grass
at 5100 ft.

The following were seen
& taken on the craggy
summit in the fine
grasses, various other
herbage usual to these
mts and oaks (a 2d
sp w small glossy dark
green leaves begins at
that altitude to replace
the oak found below)
achernum

Mel. desertorum

Phoet. subrasensis

Buttrea 2♀.

Budderia mexicana

Coualocera meadusceae

" nymphocysii

Yersinia

There is apparently
little or no difference
in the grasshopper fauna
of these mts from 5000
ft to their summits
P.M. at light.

Down linear 4

Dryloides sp? 12 R

~~Dryloides~~

$$3169 + 238 = 3407$$

✓ 24.123. Calabasas Cañon,
Santa Cruz Co., Ariz 1X.23
3750 ft.

Area of gramma grass
(abundant) dotted with
mesquites.

Syllia 2 juv scarce

Aphid 1H juv

Mel juv occasional

Phrynot 2H

$$3407 + 16 = 3425$$

✓ 24.124 Flux, Alum Cañon,
Santa Cruz Co. Ariz. 1X.23
3900 ft.

● Sch. anoshone 27 H In
tall green weeds of cañon
bottom.

Sch. vafa. 1R on dead
cottonwood on flat?

Mel. desert small
nos in weedy patches
Phac. nebrasc all H

same.
Mel. differentialis mod
● common in weedy patches
esp burdocks.

Aplya colonies in
areas of short green grass

Pecilot. pantherinus
1H in tall dry weeds,
sunflowers, pigweed etc
in Sonoita Cañon

● Geopidon arkes small
numbers in weedy patches
Lepus all R at foot
of hill on exposed rock

Mel. benjamini very common
in large colonies in wash
and on bare ground.

Nest ~~Sierra~~ capito R
on flat in short grass
not abundant

Nest Townsendi Dance
partic in barer areas,
very common

~~+80=~~

PM a few micrometum
were in the very large
cottonwoods under
which we camped,
occ giving a sharp
dzipprr. The not very
loud. All were very
high, but two finally
flew into leaves about
12 ft from the ground
and one was netted H.

Stenomacris 2 sps
of the ambata type?
at light.

Arphia 1 at light

3425 + 87 = 3512

✓ 24.125 Madera Cañon,
Santa Rita Mts, Santa
Cruz Co., Ariz. IX. 24
4900 ~~5750~~ ft Camp.

Conalcaea machucum
common in dead oak leaves
& scrub mountain scrub
under thick but low oak
forest in cañon bottom
sum up to ⁵⁷⁰⁰ ~~6200~~ ft.

Mel desultarius few
in the more open spots
of scrub.

Trim. E. modesta
Sphaeragrostis 1H2R on
bare spots & in dead oak
leaves ⁵²⁰⁰⁻⁵³⁰⁰ ~~5900-6000~~ ft.

Trin. cernuipennis 1H
on trail in heavy oak
forest at ⁵⁵⁰⁰ ~~6000~~ ft.

Conozoa very few in
open spot in oak forest
at ⁵⁰⁰⁰ ~~5500~~ ft all H

Parabaculus all R in
grass on open south
slope at ⁵¹⁰⁰ ~~5700~~ ft
Paratettix tollens 2R

near small spring in
oak forest ⁴⁹⁰⁰ 5750 ft. ^H

Trichostema virgatum
in one spot in small
spring in oak forest.

Pristocentrophylus 1834 H
under can among dead oak
leaves in low oak forest
of cañon bottom at ⁴⁹⁰⁰ 5750 ft.
Others H up to ⁵⁰⁰⁰ 5850 ft. 1 below
granite boulders, the others
all on or near dead oak
stumps.

Centrophylus 1817 H
on a dead oak stump
about which were the
majority of the Pristoc.

Polypodium frequent
in dead oak leaves where
there were interspersed
with fragments of granite
2 H.

Desmodium 2 H mod
freq in low plants
of oak forest 5750 to

A Microcentrum was been
heard in the camps of the
Baboguinvario, at Alum
Creek & here. It gives
a buzz at intervals but
is often silent for long
periods. It is quite shy
and is usually perched
high in a tree. None
have as yet been taken.
I think as I am almost
certain it is a different
species which was
secured at the above
localities, as those birds
were stridulating differently.

$$3512 + 78 = 3590$$

prob. californicum



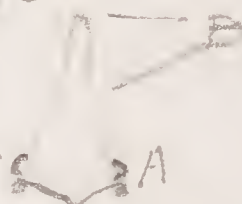
A

Cuticle. A subgenital pl. of

B

B sub-supracardinal pl. of

hard chitine? color
red brown like color
spines



spines

Process A soft process, duct
above subg-pl. of B terminal
portion enlarged (too wide)
forming spined area.

✓ 24.126 Old Baldy, Santa Rita
Mts., Ariz. 9432 ft. 1X.25

Summit bald, much
bare worn granite, plant
24.126.1, small clumps of
a 1 ft high oak.

Erigeron cyaneus small
colony on bare granite
of summit. 2027 H. Erigeron
ginnia in plant 24.126.1
$$\begin{array}{r} 3590 + 5 = 3595 \end{array}$$

✓ 24.127 Saddle at W base
of Old Baldy, Santa Rita
Mts Ariz. 8800 ft 1X.25
all H.

Erigeron cyaneus locally
mod numerous on
granite frequent trail
8500 - 8800 ft and on
bare granite frequent
areas in openings in
yellow pine forest.

• Mel. desertorum 8800
ft. mod numerous
in openings in yellow

pine forest where small
dry mountain plants
& grasses grew on
granite gravel.

Poleoessa 10¹⁷ 19 same.

~~Trim. T. modesta~~
Sphagnum oalisp!

A few same and on
trail in oak scrub
down to 8000 ft.

Mel. Cakium 1 as desert.

Mestob. Townsendi

small colonies on bare
granite gravel in open
spot of yellow pine
forest on saddle

$$3595 + 38 = 3633$$

✓ 24.128 Upper Madera
Cañon ridges to Josephina
Saddle, 18.25 6000 to
7100 ft.

Conalcaea maurana
BRBH. In underbrush
of low oak forest,

very few above 6000
ft, highest one seen
at 7500 ft.

Trimm cyanipennis few
& local on granite rocks
fragments throughout
this area. 1R others H

Parabacillus 1H beaten
from tuft of fine grass
in opening of oak forest
at 6200 ft.

Mel. desultorius very
few throughout this
area as MacLuccana all
H. Thim. follica modesta
St. Spharag same but
still rarer. 1H

$$3633 + 25 = 3658.$$

✓ 24.129. Lower Madera
Cañon, Sta. Rita Mts
Ariz. Camp at 4500 ft.
worked up ridges about
300 feet higher. 1X. 25 & 26

Open oak forest
interspersed w mesquite
underneath some short
grass & dry but green
plants.

~~Parabacillus~~ 3R in
tufts of fine grass on
hillside, up 150-300 ft.

~~Procorophila~~ 10th R
same, 250 ft up.

Aplysia occasional on
hillides ^{dry} or grassy
less steep areas

~~Spharax~~ ^{modesta} oak sp under
oaks canyon bottom &
up 200 ft on hillsides,
very fine

~~Lepidoptera~~ 1H on hillsides
with fragments & short
grass 100 ft up.

Paratettix all H on short

green grass beside lowest
pool of water in dry
stream bed.

● Helicot benjam juv
on boulders of wash,
on adjacent flat and
a short distance up hill.
Purgatorius very scarce
among pebbly areas on
hillside up 50 ft.

Conalia mumpheya juv
generally distributed

● Mel - deserti in water
in base of wash & 250
ft up hillside

Mel - ponderosa 1 ♀ R
250 ft up hillside on
grassy slope.

Edurmus juv R^{xH} occasional
in bunch grass (juv) on
hillside, 250-300 ft

Amblytropidia 1 juv R
same.

● Tomonot gray juv R^{xH}
small colonies in dead
oak leaves under oaks
in wash.

Nest Townsendi 1H in
pubble area of dry grass
250 ft up hillside.

Melaleuca general,
common on valley floor.
Gerronia hillsides, very
few, generally distrib

PM

Cantharus 1H hillside
at 300 ft higher than
camp. Flew up into top
of dead bush.

Proctabotes 1H hillside
at 200 among tufts of
grass and other plants.
Only one seen in these
mountains

Procerophya 1H after
long search in grass tufts
(Gen. 24. 129. 1 and other
grasses). One small
colony located & 1 odd
specimen after much
search. = Bortelona rothrockii

Pseudosermyla 1R out
of low bush at foot of

Mills.

~~Artemisia 17R out of bunch~~
~~of grass, same.~~

~~Dactyloctenium on ground~~
~~same. 1R~~

~~Adiantum 17R on broken~~
~~red rocky soil at foot~~
~~of Mills.~~

~~Microseris 1 from oaks~~
~~after dark with light?~~
~~See next page. 2125~~

$$3658 + 147 = 3805$$

24.130 Robles Pass, Tucson
Mts., Ariz. 1X.27 2700-3000 ft

Volcanic hills & washes
desert surrounded bare
gravel thickly dotted
with desert plants, palo
verde, sahuaro, palo
fiero etc.

~~Parabacillus 24 very~~
~~scarce on Cat Mountain~~
~~in tufts of very dry~~
~~straw.~~

~~Scholaria very few same~~
~~in bush 24.130.1. 10727H 107R~~
~~"Simmondsia californica~~

Polioessa 1 R on bare
pebbly soil.

Agrostis nap? 19 H same

Mel. aridus 18/19 H very
few in dried up gray desert
brush.

Leprus 1 H on bare pebbly
slope of cat mtn.

Tomonotus agileus very
few same. 1 R 8 H

Tactota oslari slightly
more numerous, same.
4 R 6 H

Trin. ^{stemma} red leg on bare
pebbly flat.

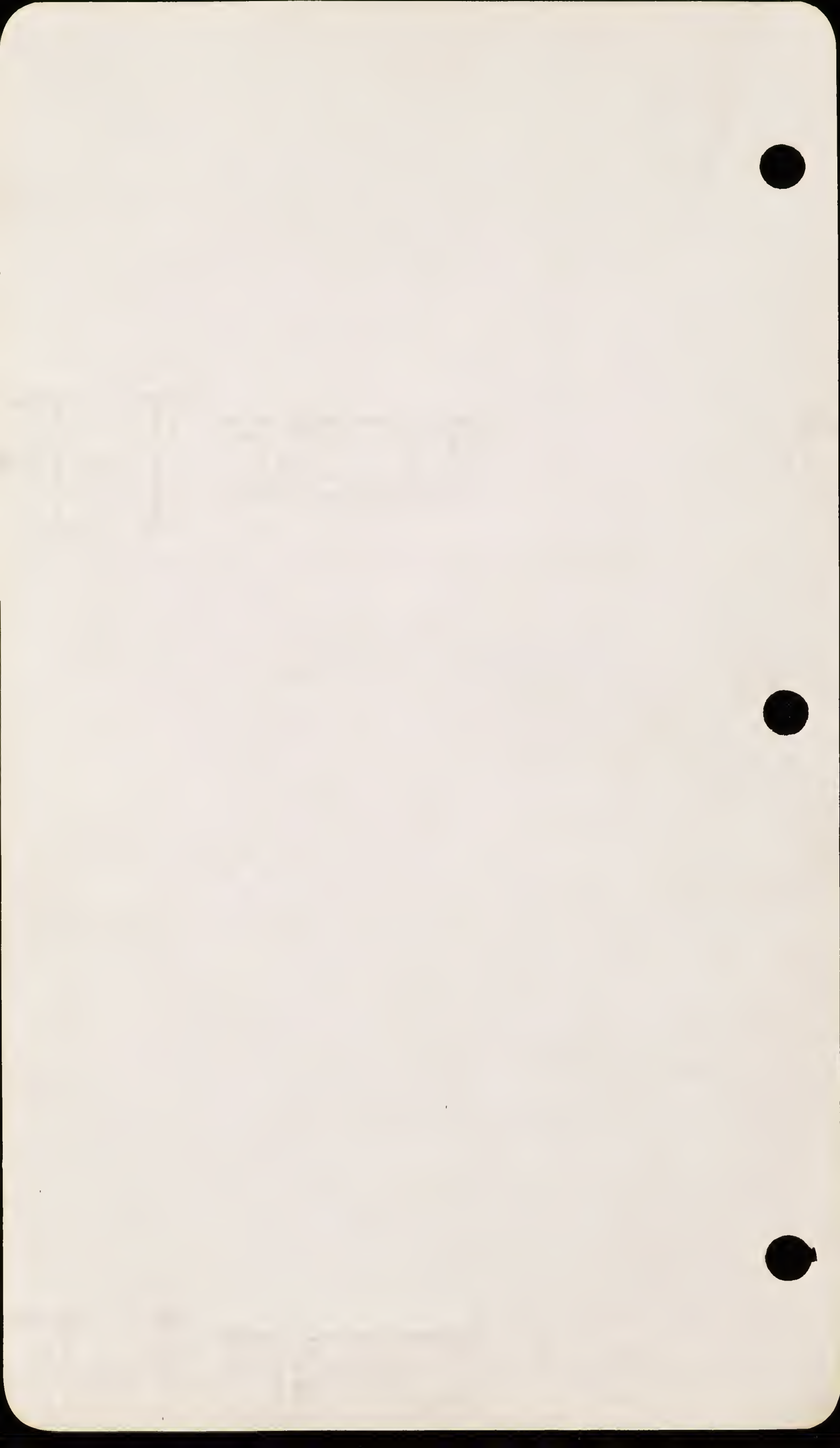
Sponoph apiciductata
3 H From wet rotting area
is decayed section of
standing samaras. The
used never occurs in
healthy plants or in
dead parts that have
dried out.

$$3805 + 32 = 3837$$

Ligurot 20/19 H. In Corolla
after dark, it's stridulating
nervously & for brief
intervals when approached
with light - perched on

This microcentrum (24.129)
gives a high-pitched tho'
not very loud dzipp
repeated at short regular
intervals. It is wary
and often ceases to
stridulate when the
tree in which it is is
approached. As individuals
are usually up 20 or
more ft and always
are in pairs (with
stiff twisted limbs
& branches) it is a
most difficult sp to
secure. It was heard

most numerous in
Schaeffer Cañon in the
Baboguenari, in Alum
Cañon and in Madera
Cañon in the Santa Rita
up to 5500 ft. The spec
secured was located
usually low, about 10 ft from the
ground



terminal leaflets of the
bush. Are they not night
judders?

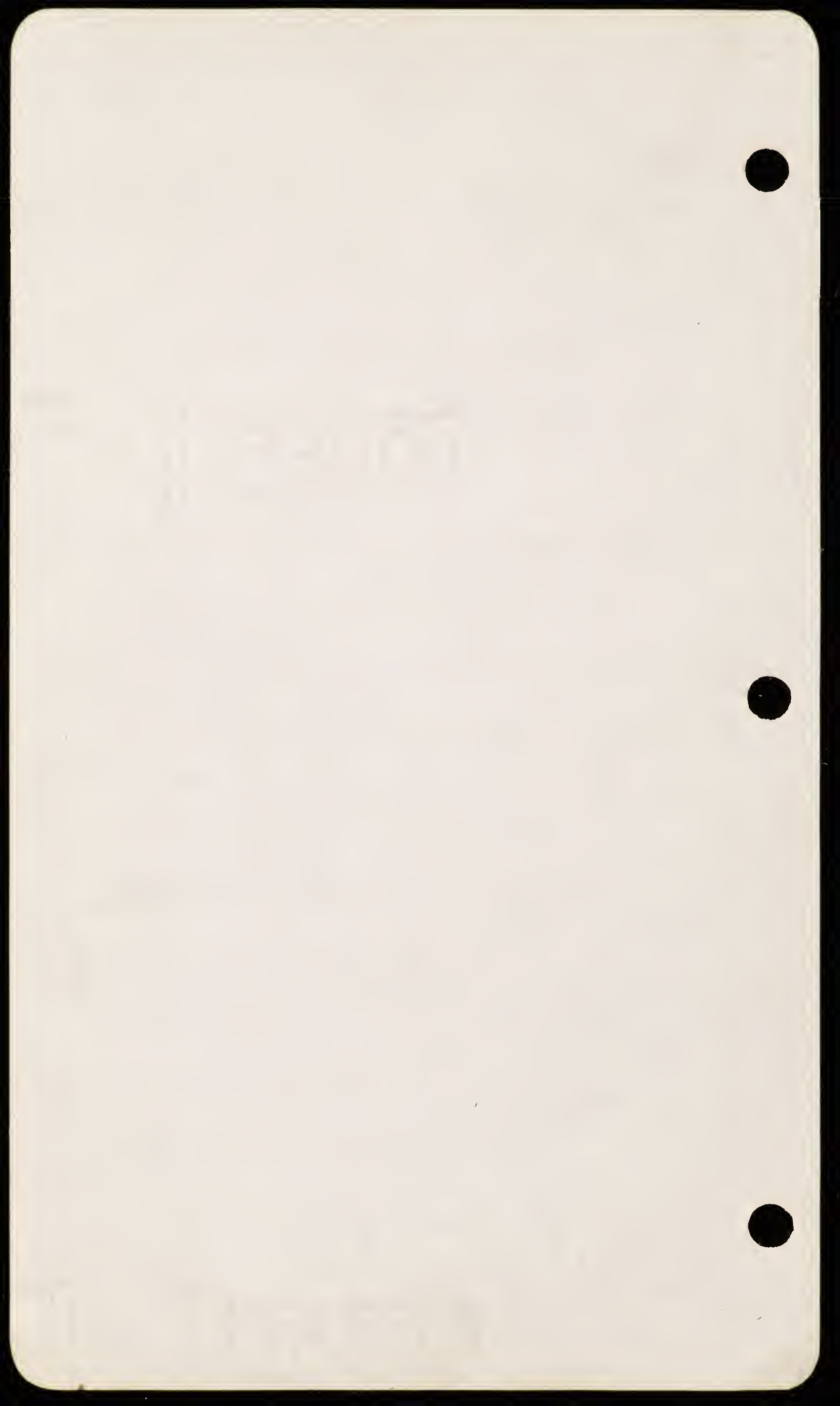
● Arenivaga 5♂ at light
Flamantia 2♂ " "

$$3837 + 10 = 3847.$$

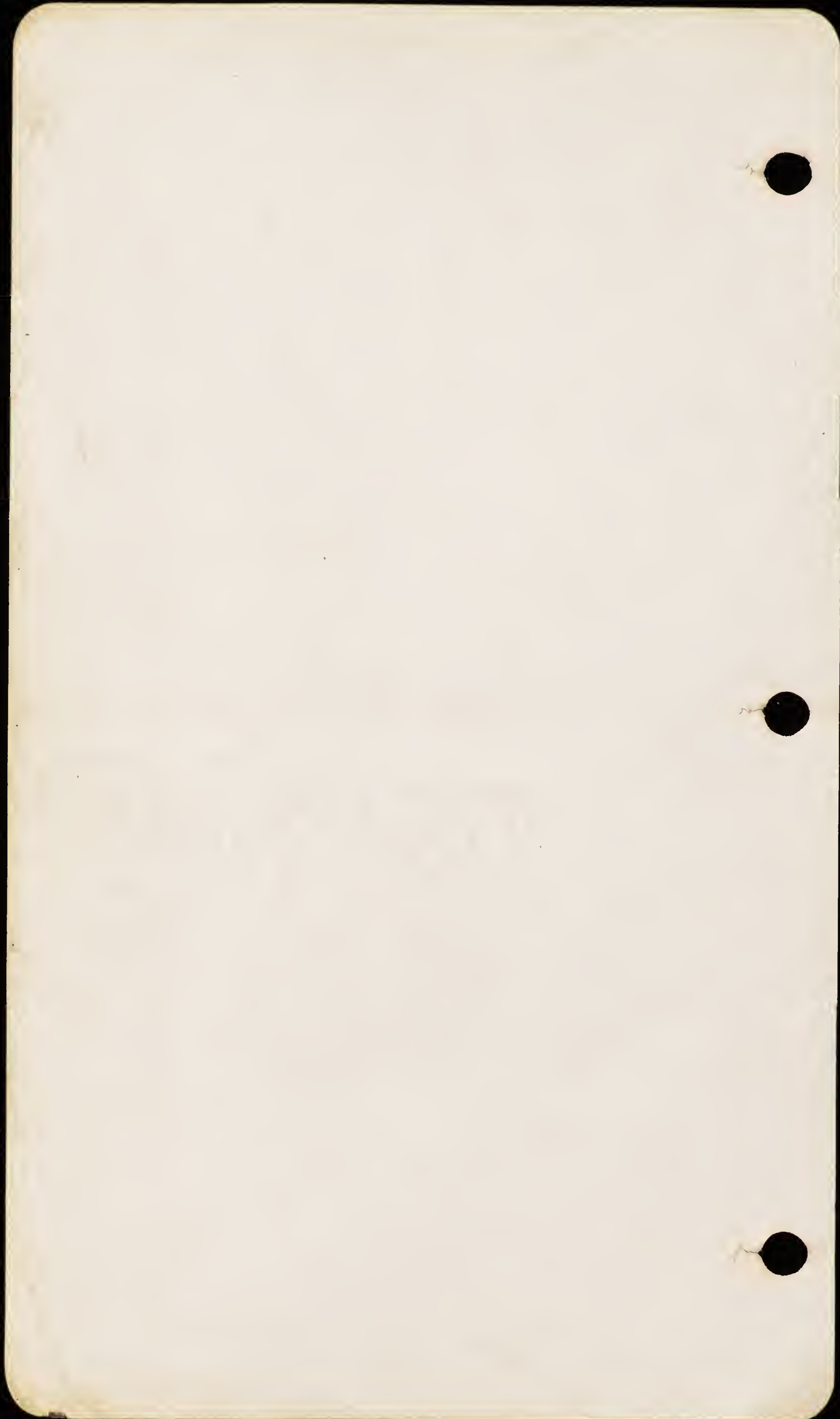
24.130 Cycloptilum heard
everywhere after dark,
abundant as at 24.86 -

Sang a high pitched

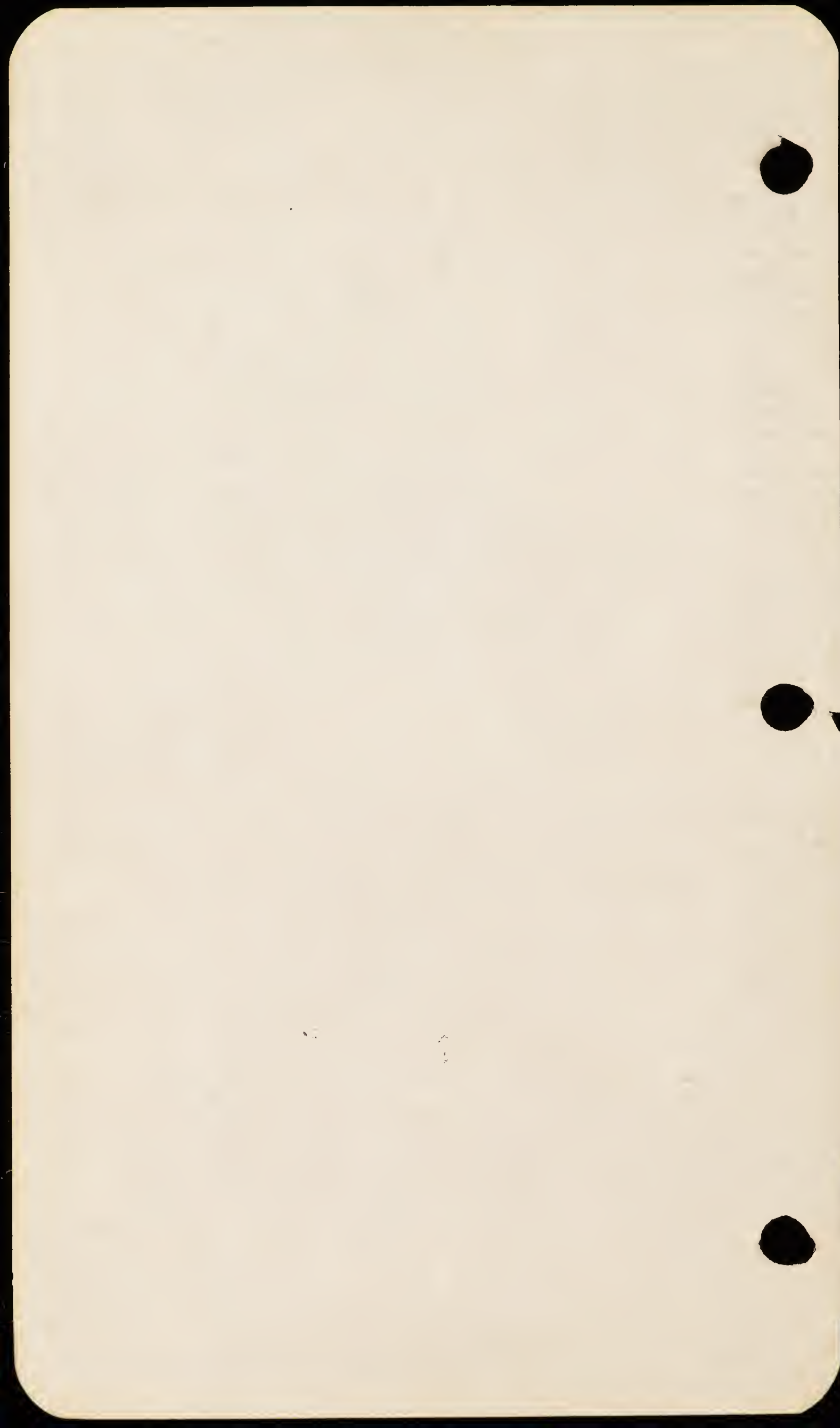
● trilling dee-dit-dee-dit-
dee-dit-dee-dit often
given over a considerable
period. The pitch
was noted to vary
slightly individually.
At both of these localities
the sound was easily
the most noticeable
● and general to be
heard after dark.



Disost carolina 24.40
and 24.60



1926



✓ 26-1 Beaver Cañon, Tushar Mts.,
Beaver Co., Utah. ~~6600-6700~~ ^{6800 to 7000 ft.}
VIII. 20. 1926

● Circotettix rubula mod. com
on slide rock bare spots &
road, seen down to ~~6500~~ ⁶³⁰⁰ ft.

● Circotettix blue leg few
seen - ♂ & ♀ both ops daller
2♂ takee doing aerial dance
Trim mic common at
~~7000~~ ⁶⁷⁰⁰ ft in weedy open
Trim rufus few in
bare spots ~~6800 to 7000 ft.~~
^{6600 6700}

● Trim caeruleipes few
appear flying out of oak
trees on road at ~~7300~~ ⁷⁰⁰⁰ ft.

~~Axytelorinus short id
very scarce in short grass
& also in sage & composite
covered open hillside ~~6800~~
to ~~7000~~ ⁶⁶⁰⁰ ft. 179 pair H~~

~~Adaleonotes borealis orealis
only at ~~7000~~ ⁶⁷⁰⁰ on above
hillside.~~

● Uel. dodgii 17H in
plants under ~~6600~~
hillside at ~~6600~~ ft.

mel. nadscherdi few in
weedy open ~~6800~~ to ~~7000~~
⁶⁶⁰⁰ ⁶⁷⁰⁰

Mel bivittatus 1 ♀ R
same, ~~6800~~ 1 ♀;

Mel attamis in low
mountain plants in
sage & oak.

Mel confusus 1 ♂ 1 ♀ H
same as dodgei

Aplyia 1 R in low mountain
plants in small opening
near stream ~~6800~~ 1 ♀;
⁶⁶⁰⁰

Cratichneumon neglectus 3

in open area with
low grass & weeds at
⁶⁷⁰⁰ ~~7000~~ 1 ♀; flat land.

Dicrost. carolina ~~6800~~
⁶⁶⁰⁰

1 R not seen higher;
mod no. along road.

Decantus 4 punct 1 H ~~6850~~
⁶⁶⁵⁰

beaten from sage brush.

Decantus yellow head

all H ~~6650~~ beaten from
scrub oaks, appar.
mod numerous there.

Acrydium ~~6850~~ to 7000
6600 6700
in lush grass on bank
of stream just mod
no 1 at H.

$$\begin{array}{r} 31 \\ 37 \\ \hline 68 \end{array}$$
 aver.

two beetles

✓ 26-2 Puffer Lake, Tushar
Mts. Beaver Co. Utah 8250
to 8400 ft. VIII. 20. 1926

aspens & fir forest, meadows
becoming lush toward

lake.

Mel borealis common
but very local in lush
low vegetation in open
near lake.

Mel fasciatus 1 ♂ R 1 ♀
very scarce in rather
scanty herbage - strawberry
etc. on edge of aspen
forest.

● Brumera very few
in short grass dry
spot in middle of
sloping meadow, all

Chorthippus very few
ads, more juvs in lush
herbage near lake

Cruciatella scarce in
small areas of bare
ground of dry meadow
slope

Trinia suffusus scarce
in aspen forest & meadow

$$\begin{array}{r} 38 \\ 20 \\ \hline 58 + 68 = 126 \checkmark \end{array}$$

✓ 26.3 Delano Peak, Tushar mts.,
Utah 12240 ft. VIII. 21. 1926

Brunneria very few in short
grasses & short Hudsonian
plants at summit meadow
ridge & in same between
rocks on rocky summit
the one with immaculate
dorsum. dry down

Mel. atlantis ♂ H
in short grasses at
summit. ✓

$$13 + 126 = 139$$

26.4 SW slope of Delano Peak
Tushar Mts. Beaver Co. Utah
11000 ft. ^{VIII-21-1926} In short grasses
in broken granite slopes
about 200 ft above highest
trees (tree timber line is
about 10800 ft) the line
of trees is far below this
in many places)
Mel. Dodgei 12H Highest
point for the sp.

Brumera mod abnd

There all H.

$$139 + 4 = 143 \quad \checkmark$$

~~26-15~~ 26-5 [✓] SW base of Delano
Peak, Tushar Mts. Beaver
Co Utah, 10000 ft VIII. 21. 1926

In short grasses & plants
of Hudsonian on edge
of alpine hemlock forest

Brumera common

partic in short
grasses

Mel. attenuis same
mod mod.

Mel. dodgei very few
in rocky spots with

plants & little grass 17 R
others H.

✓ 143 + 58 = 201 ✓

26.6 East Fork of Merchant
Valley, Ingham Mts., Beaver
Co., Utah 9000 ft. Meadow
VIII. 21. 1926
mod. slopes part dry
part wet surrounded
by aspen & fir. Upper
edge of Canadian plains
Mel. borealis mod
common in fresh areas.
Shortippers scarce, juvs
more numerous than
adults.

Tricentrot suffusus 10th
H in aerial dance, not
as vigorous as that
of habula. Noce heard
above this point ^{in rocky spot}
Cinotellix 2 ♀ R scarce
locally, both tenax
1 blue leg 1 ^{yellow} leg.
none heard above
this point.

Aspilota small colony
wid last of season
in dry area among
scattered plants
on bare ground.

Mel. Dodgei 17 R same
Bumeria very scarce
same. average 118 per
day

$$201 + 35 = 236 \quad \checkmark$$

✓ 26.7 Britt's Meadows, Tushar
mts., Utah ⁷⁷⁰⁰ 7500 ft. VIII, 22, 1926

Canadian meadows
lush short grass
Amydrium 3 H very scarce
there, few juvs.

Cammula xellucida
a few small colonies
Bumeria scarce in
dry short grasses &
plants on almost
bare hillsides &

Cynotellus 13 mod
nos - 8 or 9 only do
aerial dance, both
sexes chatter

Asplasia seelyi new, same
as Brunneria 3.

2

$$236 + 34 = 270 \checkmark$$

✓ 26.8 Foot of Merchant
Valley, Tushar Mts.
Utah VIII. 22. 1926 ⁷⁵⁰⁰ 7200 ft.

Very similar to 26.7
but dry hillsides with
much sage (its upper
limit) and above
aspen forest.

Cercotettix as 26.7

Brunneria 1H " "

✓ 26.9 $270 + 6 = 276 \checkmark$

Summit of Cañon Buech
Beaver Cañon, Tushar
Mts., Utah 7100 ft.

VIII. 22. 1926. (nearest
point for Bull Pine)

Flat with sage, some
grasses, much mountain
meadow, some mountain

Trim. suppono generally
dist. in mod. nos

● This sp. though not
as strong a flier as
Circ. rubula, is more
alert and much more
often crouches when
the net sweeps over it,
thus more difficult to
catch.

Mel. ripartilis small
nos among grasses in

● sedge.

Oedra. cordii arvensis.

very scarce in sedge.

~~Amyd. arvensis also very
scarce, as in ripartilis.~~

Camilla pellucida 2H

in small area of grass
and weeds.

Catypedeo neglectus

● mod sized colony
rare.

$$276 + 44 = 320$$

26.10 Beaver Cañon,
Tushar Mts., Beaver
Co. Utah VIII. 22. 1926

⁶⁴⁰⁰
~~6500~~ ft. Flat in cañon
bottom, much sage
little grasses & plants
Nel. micurus gr mod
common in sage.

Ald. C. primitia mod
mos (not as common)
sage.

Trin. cyanipes locally
in small colonies on
bare ground in sage.

Trin. cyanipennis 1H
on boulder shown
area in sage.

Nel. allans occid
generally distr.

Circot. rabeula,
small mos on bare
ground.

Alcauthus on sage

Hesperot mod terminus
small nos in bushy
● gray-green composite
with straight long-
stems.

$$320 + 54 = 374$$

✓ Beaver Valley

26.11 / Near mouth of
Beaver Cañon, Beaver
County, Utah. 6300 ft.
VIII. 22. 1926

Flat and gentle slope
● of sage brush with
scattered juniper, much
bare soil with small
areas of short green
& fine yellow grasses
Acanthetis common
in short grasses.

Aedon & arceuth mod
nos in sage brush.

● Mel cinereus & scab
equally abundant
& Mel arides small
nos locally in sage brush.

Mel. atlantis juv -

Dioscorea carolina "

Trill. strictum (red
leaf) 1 # Only one seen,
on bare ground in sage
brush.

Trill. inconspicua (brist
leaf) ^{mod} common locally,
same.

Trill. cymosum re
beoulder above
slopes only, between
sage brush.

Desmodium illinoense

mod nos on flat
in small weedy fields
in road.

Meibomia unguiculata
very juv on bare
ground between sage
brush.

Erigeron pallidus

juv same.

Dec 2 R water from ^{concrete}

This locality is just
outside the cañon
mouth.

$$374 + 70 = 444$$

Average 148

✓ 26.12 Beaver, Utah. 4 miles
west of Town - rolling gravel
slopes covered with sage
no other ground veget.
except russian thistle
6000 ft. VIII. 23. 1926

Trine blue-lig. ^{mod} common

rather generally distr.

Trine. abunda very few
on gravelly slopes

Trine cristata 1/2 1H on
bare adobe betw sage.

Dicotyledonea very few
on gravelly hillside betw
near silt.

$$444 + 35 = 479$$

↙ Unobius fasciatus 17H

mod nos in alfalfa
field at Town

Myiops 2 nos being carried
by small black cow (Kett)

✓ 26.13 Minersville, Beaver
Co. Utah. 6000 ft VIII. 23. 1926

Sage covered hillside
with small stones
and flat with silt.
Trin. stephens usual
on hillside.

Trin. revere few seen
Trin. curvatus fr few
in sage on flat.

Drosophila few on silt
Trin. cinctata, small
colony on silt in sage
Trin. blue by very few
on hillside

$$479 + 29 = 508$$

✓ 26.14 Same but in low
area of shale scale
(Atriplex) at SW foot of
hills.

Aerodrometes mod
large colony in wash
& gravelly border

Trine laticincta small
colony there, very shy
and active,

Dicot on silt & fine
Acroplus all + locally
small nos in shaded rock

Trine cristata gr on
silt & low brush

Trine blue leg, very few
Mel. packardii occur
in green shrubby plants
along wash.

$$508 + 42 = 550$$

✓ 26.14 Milford, Utah, 5000 ft
VIII.23.1926 Sandy area
with tufts of fine yellow
fairly high grass and
bunches of desert plants
Mel. imperialis very
few there

Trine strepera occurred
Mel. aurea gr very
scarce near few small
sage brush

Trine blue leg 1H

Hesp areo terrestris 1R in
rabbit brush in this area
Caetophyllid 1 remains R
sticking in very dry dead
scale.

$$550 + 15 = 565$$

✓ 26.15 Frisco, San Francisco
Mts. ~~Mount~~ Alt. 6300 ±
VIII. 23. 1926 Beaver Co.

Very few juniper - Sage
brush hills.

Trine cyanus H
on rocky hilltop in sage

Trine blue-leg very few
on dead among sage

Trine cristata occurs
rarely

Acanthus 1R beating brush

Hesp areo terrestris 1R
beaten from rabbit
brush

Acodopler 1H in ~~the~~

~~brush~~ Acodopler triple

Also. Wah-Wah Valley
Beaver County, West
of Muthouse alt. 5200?

Adobe house w. triple
bare and only
Juniper latifolia 1st found
on bare adobe there

$$565 + 17 = 582 \checkmark$$

5 days over 116

✓ 26.16 Road Summit, Wah-
Wah Mts, Beaver Co. Utah
alt. 6500 ¹⁰ 6800 ft? much
_{VIII. 24. 1926}

• Juniper a little juniper -
thinned with low
rabbit weed areas
of fine dry grass.

Juniper cyamopreensis 1st
on rocky soil in
junipers

Juniper stricta 1st
agrost few in fine dry
grass.

• Juniper 1st H. agrost

Parabaccharis 1st agrost
Parabaccharis 1st agrost

Stenaphura 3 juv. All
very small juv but
the commonest at
this locality

$$582 + 16 = 598$$

26.17 West slope Wah-
wah Range, Beaver Co
Utah, VII. 24. 1926 Alt.
6200 ft (about 100 ft
below junipers on
this side. Unusual
amount of green &
fine yellow grass,
some composites,
short mesquite shrub
in higher spots -
wash in Helford -
Baker road canyon
Arphia cana juv
both in grass & mesquite
thall area.
Cordellana generally
distributed but
not common only
in short mesquite
thall mixed with

grasses are edge of
heavy grass.

- Aulocara very few
in heavy grass areas.
Arenothra occurs in
grass & Russian thistle
Mel. atlanticus 19 ft in
Russian thistle area
Dactyloctenium small
colonies occur
Acrolophus mod nos
in small Russian
thistle plants.

$$598 + 77 = 675 \quad \checkmark$$

✓ 26.18 Pine Valley, east
side at 6000 ft. VIII.24.
1926. Beaver County
Utah.

Adobe flat with
white soft and very
small sand scale.

- Mel. occidentalis 10 ft
as above, very common
to find this sp. seed
near neck of desert valley

Trim green leg. Very
po there
Trim viridata 18H

same.

Mill. sage brush 18H
in scrubby sage.

~~26.19~~ Trim laticornis
26.19
few on bare adobe
must be deeper

26.19
few ~~same~~ on gravel
3H and 26.19
 $675 + 12 = 687$ V

26.19 west side of
Pine Valley, Beaver Co
Utah. 6900 ft. VII. 24.

1926 and T. cyanipennis

1H unusual as it
was some distance
from junipers and
on loose gravel
surface instead of
rocky hillsides
such as the sap
is almost always
found on.

✓ 26.20 Lava Hills
west of Pine Valley -
Beaver Co, Utah 6500
ft.

Ground red volcanic
pebbly, much dry
fine yellow grass.

Mustel imperium
occasional there

Aupha crassa 2 there

Trine gray 2H on

top of Limestone Hill
6600 ft.

Arenochor californicus

10H juv on volcanic
ground. 10 grass

Cordillaceis 2 sps?

many juv same

Arenoch 1H many juv

same

$$687 + 26 = 713 \checkmark$$

26-21 White Sage
Valley, Millard Co.
Utah. Elev. 6600 ft.
VIII. 24. 1926

Adobe flat with
white sage and a
low stiff rabbit weed.

Quercus californica some
over valley in bare
adobe spots.

Berberis canadensis
rare.

Quercus laevis usually
between white sage
and rabbit weed
on single see adobe
Hep & small very
few in small stiff
rabbit weed.

$$713 + 22 = 735$$

6 days over 122

Cave 6950

26.22 Stella Lake to timber
line. Mt. Wheeler, Nevada
10000 to 10600 ft. VIII. 25. 1926

Trimm. suffusus few
in dry undergrowth
of fox-tail pine fir etc.
(see second. down to
yellow pines at 7800 ft.)

Trimm. nivic 2 ft in arctic
alpine herbage near
Stella Lake 10000 + 10100 ft.

Circotettix medulatus

very few on bare (side)
granite steep slopes
10000 and 10500. Also
found at 8500 ft. on
granite boulders with
soft brush between.

mel. alpinus very few in
small areas of rich green
~~but dry~~ arctic alpine
plants in patches on
very steep slopes. 10000 to
12000 ft.

Brunneria sordida

very local in patches
of dry plants & scanty
grasses, usually on steep

slaps 4R others H.

$$735 + 40 = 775$$

✓ 26.23 Mt. Wheeler, Ned.
VIII. 25. 1926. 10600 ft (tree
line) to summit 13058 ft.)

Brunneria narcida 2♀ in
same condition as 26.22
but at 10800 ft.

Trine suffusus on bare
ground at timber line.
Melanophyes? piece of
leg under rocks at
11500 ft.

$$775 + 5 = 780$$

Nothing else seen
from 10800 to summit.
Ichneumon at 12000 ft.
Agropyris at Stella Lake
C. undulatus etc 26.22.

26.24 Lahman Caves,
Snake Range, Nevada
VIII. 24. 1926 ~~6~~ 7000 ft MH

Gravelly hillside

Mul aridus occid

Cordillacris 1♀

Trine gum leg 2

$$780 + 6 = 786$$

~~6 days over~~ 13+

7 " " 112

✓ 26.25 Lehman Caves, Snake
Range, Nevada VIII. 26. 1926

6800 - 6900 ft. Boulder
stone valley with
much sage and little
undergrowth. ^{veg.} juniper
True yellow leg mod
mos

True cyaniparus many
juv
A. junco diurnus 2H

True cyaniparus many
juv
 $786 + 33 = 819$

✓ 26.26 Same as 26.25 but
lower 6300 ft.?

True yellow leg see
hillside

True similar but blue
leg see gravel &
wash

• True cyaniparus!

" cyaniparus juv
Stirax pleura? juv; (see)
 $819 + 8 = 827$

✓ 26.27 Baber, Snals
Valley, Nevada.

6000 ft. VIII. 26.1926

adobe plain w much
shad brush, & little
grass.

Aerock carlinianus 1~~H~~^{WW Farney}

only one seen

Cordillarius 1~~H~~ only one
seen

Melanops cuneus 72 1R

only one seen

Trine crist 1H only one
seen

Trine blue by several few

Striata 1 juv few seen

$$827 + 9 = 836$$

✓ 26.28 Spring 12 miles

NE of Baker, Snake

Valley, ~~Utah~~ 6000 ft

Spring Millard Co, Utah
VIII. 26. 1916

Conozoa wallula mud
sized colonies on bare
ground just outside
green grassy run off
of spring.

Acidoplus 1H in desert
brush

Trin latic very few

in bare adobe among
desert brush near spring

Dorotia 1H on bare
gravel near spring

$$836 + 24 = 860$$

✓ 26.29 West foot of Cowboy

Pass, Confusion Range,

Millard Co, ~~Utah~~ Utah

5300 ft VIII. 26. 1916

Short desert brush &

bare alkali ground

Acroch very few

Pseudoscorpion beaten
from yellow flowered composite

two two Arrow? seen
Taken

860 + 6 = 866

✓ 26.39 See below

1 Arthrocnemum carolinianum

Summit Cowboy Pass,
Confusion Range, Utah
5700 ft Millard Co.

On bare adobe between
desert bushes VIII.26

1 Trifolium cyanipennis

rocky hillside in
White Valley, Millard
Co. ~~Utah~~ Utah 4500 ft

VIII.26 nothing else at
both these sterile ^{canyon} localities

Rainbow Valley House
Range, Millard Co., Utah
VIII.26 5700 ft.

Rocky benches at mouth
of canyon, sparsely with
grasses, Russian Thistle
& desert brush. Very
sterile

Aerodrometes 1 ¹⁰¹⁰ ~~7~~ in desert
brush on bare soil

Mel occidentalis 1 H in
Russian Thistle

Lepeurus 1 R on broken
shaly slope bare area

Trin cyaneipes 1 H on
bare slope little desert
brush

Cyanopt. Coenurus very
few in Russian Thistle
and grass area

$$866 + \overset{9}{\cancel{1}} = \cancel{874} = 875$$

8 day over 109

✓ 26.40 Rainbow Canyon,
House Rock, ~~Nevada~~
6000 ft VIII. 26. 1926

Acc 4-munt 3 H, 2 in
high bunches of rabbit
brush, a long continuous
trail at night

Dryllus assimilis 1
under stone.

$$875 + 3 = 878$$

2 Elodes

✓26.41 East side of
Manjum Pass, House
Range, ~~Utah~~ ^{Utah}, 6200ft
VIII. 27. 1926

Desot 1st on shrub
among desert brush
Trine blue-leg same
very few in one area
only

Acroch? juv same #
Strapl juv occur
where small tufts
of grass were to be
found

$$878 + 11 = 889$$

✓26.42 Soap Hollow,
Whirlwind Valley,
Mullard Co. Utah

~~49550~~ 4950 ft VIII. 27. '26
^{adobe}

~~Alkali~~ wash with
desert brush but no
other veg.

Trine latic fairly
large colony on ^{adobe} ~~adobe~~
betw desert
bushes

Trim cristata few there
and in shrub.

● Deschmumia on shrub

$$889 + 23 = 912$$

✓ 26.43 ~~Sevier~~ Sevier Desert
(north of Sevier Lake, ⁵
miles west of ~~Delta~~ ^{Hinckley}).

4700 ft VIII. 27. 1926

Millard County, Utah.

Bare smooth adobe
flat with Sarcobatus

● A species of Salicornia,
Acrolophus 1R in desert
brush.

Trim latic fairly
common there

Trim crist 1H Keene

Trim colorless wing

1H 1WW Fawcett, never
rare as much searched
for

$$912 + 27 = 939$$

✓26.44 Desert, Millard
Co., Utah 4700 ft
VIII. 27. 1926
About 5 mi ~~west~~ east
of. Level country
with much desert
brush, high clumps
of rabbit brush and
areas of salt grass.

Hesperotettix pastor
rare in large clumps of
rabbit brush

Aec. black base 3 very
rare same

Mel. cinerascens Jr 17
same others near or
in desert brush

Trim. latic. feed on
smooth bare adobe
Trim. crust. very few
on bare ground ~~desert~~
desert brush

Aqueduct small ones
in salt grass.

Opilia very few
same

✓ Sarcophomala 2R same
very scarce

● Acrolophus 1R in desert
brush very scarce.

Mel. packardii found
in Russian Thistle
Mestobis impressum 1H
very scarce in salt
grass area

Trin. colorless wing
W.W. Farrer, only one
seen

● $939 + 46 = 985$

26.45 Fillmore, ~~Hallard~~
Co. Utah 5300ft VIII. 27. 1926
(22)

Trin. gracilis mod common
on bare ground in sage brush

Trin. latic found same

Agrost. decorum frequent

Neel. curvica gr occasional
in sage brush

● Mel. allanii found in

Russian Thistle

Stajmon californica 15R
attr to light at night
in meadows $985 + 22 = 1007$

V26.46 Kanosh, Millard
Co. Utah 5000 ft VIII. 28. 1946
Sage flat with areas of
rabbit brush as tall.
loamy soil

Trine strepera mod
common & general
Asp nee terminus mod
common in rabbit brush
Redal megna 1H in
sage brush

Hel cinereus fr mod
common in both sage
and rabbit brush.

Dioscorea carolina, fr
along road

Hel atlantis same
Trine vine as usual

Agrostis doonae very
common in areas of
fine short yellow grass
among sage.

Lithocarpus 1R running
on bare ground
Ascauthus beaten from
rabbit & sage brush.

$$1007 + 82 = 1089$$

✓ 26.47 Kanosh, Millard
Co. Utah. 5200 ft. 5 miles
SE, hill slopes, reddish
soil, juniper & sage, ^{VIII. 28. 1916}
Trin stuma very common
in open, areas of scant
short yellow grass
Septus 19 1010 Farrer, there
Strophura few few same
Mel cinereus fr few in
sage

• Mel aridus all the same
Asperot in rabbit brush
almost common, as stema

$$1089 + 39 = 1128$$

✓ 26.48 Dog Valley, Sawant
Range, Millard Co. Utah
5900 ft. Hills with sage
rabbit brush juniper
& pine short yellow
grass. ^{VIII. 28}

• Mel Peckardi as revisum
thistle
Trin cymipennis few

on bare rocky hillside
spots in sage.

Trine cyanipes on bare
level ground at foot of
hill

Mel cinereus gr mod
nos in sage.

Hesperomys terrestris small
numbers in rabbit brush
Trine strepera few on
hillside

Mel aridus few in
sage, exceedingly active
and powerful jumper.

Cordillacris nevadae sp
very few in short fine
yellow grass on steep
hillside

Peromyscus leucurus few near
Red barbii semitis 18th

(3 seen) very scarce in
sage brush on hillside

$$1128 + 38 = 1166$$

✓ 26.48 Clear Creek Divide
Summit. 7250 ft

Pavant-~~Beaver~~ Ranges

Utah Tushar
VIII. 28. 1916

Short dry yellow grass
hillside w sage brush &
areas of ^{low} oak.

Aed. borckii armitis 1H, 2
WWF In ~~sage~~ sage in
short grass areas

~~Aed.~~ Decanthus 2R beaten
from scrub oaks.

Trin. virec few in

waste area

D. woodi carolina 2 seen
Taken same.

Asp. n. terminus 1R,
from rabbit brush

$$1166 + 9 = 1175$$

✓ 26.49 Marysvale, Pute
Co, Utah (Horn. north)
5600 ft VIII. 28. 1926

Flood plain of Swier

River at its head.

salt grass areas and
others of low green
weeds & plants

Oxyphlella occasional
in ~~the~~ salt grass

Camnula 1 H same

Metolbr Voiova 1 R 1 W W F

same

Melattamus mod no
in short weedy plants

Mel fumer-rubrum few
same

Disastera carolina few
on flood plain

Attagids in many
large mos, about half
juv in & low green weedy
plants & salt grass

Chortoph veridif few
small juv same

$$1175 + 65 = 1240$$

✓ 26.50 Marysville, Piute
Co. Utah ✓ III. 28. 1926
~~5750 ft.~~

6000

Steep hill slopes of
Tushar Mts, finely
broken loose rock

with small brush
of desert, in depressions
gigantic sage, sarcobatus
& rabbit weed.

Trim cyanipennis ~~was~~
quite frequent along
base of foothills on bare
rock fragments below
bushes

Trim green 2nd same
only sees some

Microtus 2nd same same

Trim crist 1st on bare
ground among high
brush on flat

Hesperomys terminis in
rabbit brush

Trim latic 1st as T. green 1st
Onychomys carline? 1st as Trim
cristata.

Meel aridus 1st in sage
& sarcobatus, occasional
beet so active that it
was scarcely possible
to secure one
and 1st Trim laticornis
from near by barren

Hillside w widely
scattered small conifers
as well vegetation
at Sevier, Kane Co, 5500
ft.

$$1240 + 21 + 1 = 1262$$

Daily aver 9 days = 140.

✓ 26.51 Sevier Valley, 4 mi N.
of Spry, Garfield Co. Utah
6300 ft VIII. 29. 1926

Steep hillside w small
rocks, much sage &
in bottom rabbit wdg
areas of scant short
yellow grass

Neotoma mexicana 1H
on bare steep hillside
between sage

Trine blue leg 1H same

Trine cristata on flat
sandy soil between
large clumps of sage
& rabbit brush
Trine pallidipennis
roadside

Derotus 1H as blue leg

Truicropis

$$1262 + 7 = 1269$$

✓ 26.52 Panguitch, Garfield
Co. VIII. 29. 1926 6500 ft.

Truicropis gracilis occasional
on almost bare ground
on sage brush flat.

Mel. cinereus gr 1H in
sage at same loc.

Deschmidea on steep
hillside on rock

fragment strewn
bare ground between
sage 1H

Truicropis cyaneipennis
small no same.

Stenopleria very few
in short patches of
grass.

$$1269 + 12 = 1281$$

And 2 finches

✓ 26.53 ^UPaiusagunt ^UPlateau
southeast of Red Canyon
Garfield County, Utah
VIII. 29. 1925 7750 ft.

Bare plain well covered
with low black sage
and mountain plants
Areas bare of these with
mowed patches of low
dry green grass and
plant (Sample 26.53)

Cordillaria slu nevada
type 9 (1R 2WWF 6H) usually
under black sage or
on grass spots.

Hel nefautilis 3H Very
scarce in black sage

Hel occidentalis 1R in
black sage areas.

Mesobry Reowa very
scarce in grassy patches
(grass 1/2 inch high) 1H 7WWF

Xanthippus? just found
widely distributed same

Triser graciles just in
black sage areas

Trin. red-leg occasional
& widely distributed in
both sage and grass
patches. Sudden &
erratic flight accompanied
by a distinct whirr.
Alert but not as wary
as gracilis.

Pedoscirtetes nevadensis
10' 29 4.2 Bee grass and
plant 26.53 patches, one
chased out from under
sage nearby. All in
area not over 25 or
yards. Long search by
three of us located one
more. Alward and
slow, a terrestrial insect
its actions closely similar
to those of P. maculipennis.
These insects act as if
they had protection of
some kind against
birds etc. & were it

$$1281 + 47 = 1328$$

2 beetles

1 wash

✓ 26.54 Bryce, Panguitch
Plateau, Garfield Co. Utah
8200 ft (verify) VIII. 29. 1925
Forest of bull pine
in open glades with
much black sage and
B bush (called juniper in
Utah), a little grass and
mountain flowers. very
dry.

Trine red leg. Jew, local
but widely distr

Xanthippus juv same
Orphellia 1 H in black
Cordellanus shw

sage.

Trine pallidif 1 WWF only
one seen ~~solitarily~~

~~Wol shw blue leg 18 WWF 1 ♀ H
in black sage & treasured
leaper, but slow in taking
action solitarily
Wol shw red leg 18 2 ♀ H 1 ♀ WWF
in black sage and B bush
same as blue leg in action
long search failed to
find more specimens~~

1328 + 22 = 1350

beetles over 10 do 135

✓ 26.55 Same as 26.54 but
VIII.30.1926 This was just
short of 2 mi from the
lodge.

Long search ~~proved~~
that ~~Mul~~ ~~show~~ blue &
red legs are the same.
Cordellacris ~~show~~ very
scarce in & under black
sage.

Mul near repentilis 1
pair in cothurn & in black
sage

• Anthriscus gno ocul
in bare spots

$$1350 + 40 = 1390$$

✓ H beetles

✓ 26.56 same as 26.53 but
VIII.30.1926 long search
by the three of us failed
to locate other Pediosirt.

Hesperotilla 1H in rabbit
brush of depression -
only one seen after
consid. work on plateau
Cordellacris crenulata gr
1R between low black sage

Litaneutria IRIT in
low black sage. These
additions were made
during prolonged search,
all being exceedingly
scarce at this locality.

$$1390 + 30 = 1420$$

26.57 Red Canyon,
Paiusagunt Plateau,
Garfield Co., Utah 6700
ft. VIII. 30. 1920.

Red walls & rock
slides, bull pine
& a little spruce, piñon
& juniper. Dry needle
mountain plants
widely scattered
Cercot habula mod
common, at foot of
slides and in bare
spots of flat &
dry stream bed
battering sometimes
unconsciously but
rarely alert.

~~well timbered with~~
few on almost bare
ground under pines
and at foot of slides
the scanty veget incl
no black sage or 13 plant
Bradynotes Kaibab 15th
at foot of rock slide
in large ^{pink} pebbles there
there was no vegetation
whatever.

Trim yellow leg 1 day
8th All pink gravel
with very little growth
of mountain plants.

$$1420 + 32 = 1452$$

26.58 Markagunt Plateau
Iron Co. Utah ~~7000~~ 7000 ft.
VIII. 30. 1926

Travelly slopes with
scant mountain plants
betw pine & some fir
aspen forest & mtn
meadow.

Trim suffrutescens occid.
Mtl. ~~timbered~~ ^{scattered} ~~with~~ ^{few}

Trine red def 1H but 1
sum.

$$1452 + 11 + 1 = 1464$$

Camnula pellucida 1H
mountain meadow of
moor high drying grass
Upper Sevier River valley
Garfield Co. Utah VIII. 30

26.59 Cedar Breaks, w rim
Markagunt Plateau
Utah. 10400 ft. VIII. 31. 1926

Trine suffusus 3R in
open glade of ^{upper Mudsoman} ~~arctic~~
alpine herbage just
back of rim fringe of
spruce.

Trine solitudinis in glade
of upper Mudsoman
herbage, the majority
in one small area of
a species of Andelion
Generally there was
nothing in forest or
open

$$1464 + 12 = 1476$$

✓ 26.60 Cedar Breales,
Markagunt Plateau,
Utah. 10300 ft VIII.31.1926

● Hudsonian meadow of
fine, rather high, quite
green grass. About 1/2 mile
from rim.

Mel borealis in great
numbers everywhere in
the grass, plainly doing
considerable injury to
the range.

Chorthipp. corticarius fed
in greenest and deepest
● of this grass (the whole
area dry, but not as dry
as usual on the plateau)

$$1476 + 88 = 1564$$

✓ 26.61 5 mi E of Medway,
Markagunt Plateau
Utah. 9700 ft VIII.31.1926

~~Mel. alb. mod common
in patches of thickly
growing fine, high
dry grass. Hudsonian zone.~~

Brunneria same.

Tric. halidensis same

Stewieys 17 WWF 12 R 18th 17th in
larger tufts of grass, all
in small area, only
one other seen after
thorough search. Very
active, springing about
vigorously & then diving
into grass tuft, where it
was extremely difficult
to locate.

$$1564 + 71 = 1635$$

✓ 26.62 Ducks Creek,
Marble Mountain Plateau
Utah. 9000 ft VIII. 31. 1926
Scattered slopes of white
boulders with scanty
veg.

Circotellus cabala There
and also few in bull
pine forest to east at
about 8300 ft.

Brunneria 17 WWF There
~~will be short to 1st there~~
on flat with much
short grass and no
orth, 10th in very scanty

ground cover of bull
pine forest at 8300 ft.

Trine suffusus very
few on very scanty
ground cover of bull
pine forest at 8300 ft.

✓ Trine red 1635 + 12 = 1647
at 8000 ft.

✓ 26.63 7 mi n. of Bleedale,
Virgin River valley, Kane
Co. Utah 6300 ft. Bull pine
zone

Mel. packardii in rabbit
weed.

✓ Derot. on gravelly soil
of flat arid area.
Occasional.

Circotettix rubra 1H
very few there.

Acacanthus

Mel. altaris 17 R There
M. cyanipes 17 H "

1635 + 22 = 1657

✓ 26.64 3 mi So of Bleedale,
Virgin River Valley, Kane
Co. Utah. Juniper zone

5500 ft. VIII. 31. 1926
Juniper rough hillsides
in sage but scarcely any

growing vegetation.

Trine cyanepurpurea 4H
occasional.

Hesperis truncata 1R in
rabbit brush of bottom
pasture.

Quercus R laevis

Trine cristata on sandy
soil betw sage brush on
flat.

Trine pallidipennis juv
dist.

$$1657 + 14 = 1671$$

✓ 139 over 12 days

26.65 Three Lakes, Kane
Co. Utah 5250 ft. IX. 1. 1926

In green grasses about
upper lake.

Uel. pumil-rubra abd.

numos fasciatus

Conocephalus fasciatus juv

Trine cristata juv on
sandy soil among
weeds

Uel. packardii 1R

$$1671 + 17 = 1688$$

✓ 26.66 Pink Sand Hills,
road between Virgin River
and Three Forks, Kane Co.
Utah. IX. 1. 1926 5750 ft.

Sand hills with much
large pine foliage, drooping
sage, some rabbit weed
and small tufts of yellow
grass and delicate green
sandy plants. ^{Juniper}

Trim. campestris gr red
leg 1♂ 1♀ 10W 3 Extremely
scarce. ^{Antennaria filifolia}
Dorr.

^{anemone}
Trim. campestris gr yellow
leg occasional and well
distr in one large area
but absent in others.
Usually would not fly
until very closely appr.
but sometimes very wary,
flying low for considerable
distances. 9W 3H 2R

● Trim cristata occasional
Neotobryna 2♂ 1♀ 10W 3
all in one spot only a
few yards apart.

Mel. cinereus gr in sage
& composite. ^{cal. pale} local pretty well
Bec. Clark ant base
same & 2# sleeping in
Yucca.

Arctotellix kabula very
scarce 2 W W F

Parabacillus 1 R beating

$$1688 + 67 = 1755$$

✓ 26.67 Kanab, Kane Co., Utah
4600-4800 ft IX. 1. 1926

Three locations

A 4800 at mouth of
cañon above town north
talus slopes & flat above
river cut

B river flat 1 mile below
town

C same and rising
slopes of low hills 1 1/2 mi
below town.

Opis B mod nos in dry
pale yellow grass on
sloped flat.

Arctotellix juv A in grass
thicket on flat above

river, B. juv as Speia.

Cordillacris 1 ♀ H; B, as

● Speia.

Sitancutria 1 ♀ H; B, same

✓ Paropromela cogo mod
common, as Speia.

Derotumena on bare
adobe in Russian thistle
C.

Trina strema 1 ♂ R 1 ♀ W & F
C, ⁴⁶⁸⁰ on gentle base slopes
of hills among sage
etc.

● Conozoa ulcifer small 2
numbers on bare smooth
adobe in weedy areas B.
The males very active,
cycling ^{up} a rapid & their
vel bowditchi gr? in
sage brush & weeds, few,
B

● Trina cyampanus few
at A on bases of talus
slopes in low composite,
sage etc.

Vel paesardi B few in weeds

Scutigerella nemata 2H
only ones seen, in weeds
at A.

Uel fennel-ruber H. juv
in alfalfa.

Uel aridus 10H same as
Trim streuma.

Hesperotettix viridis many
seen in rabbit weed at B

$$1755 + 89 = 1844$$

at 10 bottles

✓ 26.68 Fredonia, Coconino
Co. Arizona, 4500 ft.

IX.1.1926.

Adobe flat covered with
sarcobatus & atriplex
between Shinarump Cliffs
on Kanab Creek.

Trim lateocincta seen
just over barren areas,
in high wind many
were easy to take but
some were very alert
and almost unapproachable.

Trepidulenus 2R on
bare adobe between
sarcobatus bushes

Trine blue waxy / very fine
~~same~~ ~~same~~ ~~only Arizona~~
same.

Neotoregma 1 R same,
only one seen.

Conozoa small moss
locally on adobe

1844 + 42 = 1886

✓ 26.69 Lower slopes of Kaibab
Plateau, 15 mi ESE of Fredonia,
Coconino Co. Ariz. 5500 ft ^{18.1}

Juniper & piñon zone -
patches of short, fairly
coarse ~~blue~~ gray green
grass. Sage & composites

Trine cyanum mod
common locally in sage
& composites.

Trine yellow leg. same but
more confined to areas
of pale colored pebbles.
Hsp. nevadensis rare
in cult H, on ground near

low composites.

Hel aridus 1 H on ground
in sage brush area
Cordilleria small sp

1H 1W 1W 7 in grass noted above,
only ones seen.

Agaveotellus record, same
Sileneutria 1 R running
ground.

$$1886 + 27 = 1913$$

$$13 \overline{) 1913} \underline{147}$$

$$\begin{array}{r} 61 \\ 52 \\ \hline 93 \end{array}$$

deer for 13 days

$$\begin{array}{r} 93 \\ 91 \end{array}$$

best day 242

26-70. 10 miles N. of De Motte
Park, Kaibab Plateau, Ariz.
8500 ft. IX. 2. 1926

mountain meadow
dry short yellow grass
& mountain flowers
surrounded by dense
red & white fir forest
Xanthippus 1 R see under
a grassy hill slope.

Bradyrotes 1W 1W 7 8H
in much grass interspersed
pebbles just at foot
of such a slope - all
in area along slope
not over 20 ft wide

used 150 ft long. Long
search failed to find a
female. Though clear
it was very cold and
windy, but in spite of
this these males were
unusually active. For
rid of the gums, pumping
quite vigorously though
clumsily.

Trine red leg occasional
in vicinity of this area
Trine suff. same.

Long search over rest
of meadow located but
1 Trine red leg, while
nothing was found
in such meadows
below or at 2 stops
on DeWolfe Park.

Cammeba 1st as Xanthippe
Trine pallidipennis 1 ad juv
commoner same.
1913 + 34 = 1947

✓ 26.71 North end of
De Motte Park, Kaibab
Plateau, Ariz. 9000 ft.
IX.2.1926

Nothing in grassy park
just like 26.70 except

Tricus vinc 1R

Tricus suffusus 7H in short
yellow grasses in weed
along edge of fir forest

Also

✓ 1. Tricus red leg on
flat of ^{scanty} mountain
plants under great
bull pines IX.1.1926, H,
at 7000 ft., NE Kaibab
Plateau. (also 1 motte there)

✓ 1947 + 8 + 1 = 1956

26.72 Bright Angel Point,
N. Rim Grand Canyon,
Kaibab Plateau, Ariz.
8153 ft. IX.2.1926.

Tricus cyaneipes occid.
in scanty plants under
bull pines, in many
places the only orth

to be joined.

Others all H, in area
of out-crops, dry yellow
grass interspersed
with very low clumps
of a dark green leaved
bush.

Uel atlantis Bin bush,
see above.

Somphocerus 17 in
grasses near bush, see
above.

● Cratylides 13 H in
grass, see above.

Trin affusus occid
over grassy area.

Except for one small
spot, a most unproductive
locality.

Mar 24/14 1766 (140

✓ 26.73 1756 + 10 = 1966 $\frac{56}{56}$
6700 6

● ~~Also 6000 ft~~ NW. slope
of Kuebar Plateau in
juniper & pison with
mabbit brush
1x. 2. 1926.
Rec. 1R at lighted night

Carpodacus brunnescens

13th. Muddled
vigorously, a nervous
dza-da-da-zit, in topmost
clusters of juniper about
20 ft high as soon as
dark fell. All (about
6 heard) were exceedingly
wary, ^{in pines as well as juniper} ceasing their
song (which is faint)
for so large an insect,
being audible at nearly
over 25 ft) when the
tree in which they are
is approached within
a few feet; even if
extreme caution is
used - Also heard -

26.16 1 only, in top of a
juniper and seen, but
escaped. colored exactly
like this male.

26.25 one heard in top
of large pine.

26.45 two heard in juniper.

Plant sample 26.74

1966 + 2 = 1968

26.74 Same as 26.73 but
IX.3.1926

~~Scintomastax~~ 13H 13WWF4R 1st

found early in morning
asleep w head and front
tucked between two pebbles
on bare ground and legs
partially extended. Others
found under "juniper"

where while it was
still cool they were not
wary to take but later
became very active -
a few beaten from some
appear sleep on the
ground jumping up
into the "juniper" to
feed during the day.

Infrequent but found
in small groups -
in many bushes with
none under them.

their resemblance to
small twigs of the
plant was remarkable.

Decantus yellow head
on scrub oak 18th at
night gives single long
rich trills. 17R

Circot habula never
seen on bare pebbly spots
in juniper & pines.

Trine cyaneipes 18th & 19th
along road thru juniper
& pines.

Trine red leg very
scarce; as habula.

Dactylid 17th at base of
small conifers in
open space between
juniper & pines.

Red border ornatus very
few in cage

Red border ornatus still
scarce, some are
exceedingly alert and
active, jumping.
prodigious distances

Amphitornus 1 R ♂ same
as detected

✓ 1968 + 47 = 2015

26.75 Same as 26.74 but
6100 ft. mid-lower
juniper & piñon zone,
more sage and less
rabbit weed, similar
areas of short dry
grass.

~~Amphitornus~~ Amphitornus a few taken
by H under "juniper" (see
26.74), but no special
search made - probably
as numerous as at 26.74.

Mel arideus as at "

Red b. orientis " "

Cymatillus small nos
in areas of short grass
Cordillacris same

Trim cyanepennis

small numbers in
bare spots of sage
brush slopes.

Trim yellow leg very

scarce in pebbly spots
Neotoma 1H in brush
between on bare spot
Silene 1R same
Hesperotellus 1R beaten
from low plants.

✓ 2015 + 54 = 2069

26.76 NW base of East slopes
of Kaibab Plateau, Coconino
Co. Ariz. IX. 3. 1926. 4900 ft
Sage brush adobe wash
and low ridges of
same with gravel
& some scrubby grass.

Trine yellow-leg occurs
in gravelly areas in
sage and some rabbit
brush on waste.

Trine gracilis locally
not infrequent on
bare adobe betw sage
Hesperot 1H. from
short rabbit weed
in adobe area surr
by sage.

Agave small ones
there.

● Trin. cyaneus
were found on East side
gravelly ridges w sage
& bare or pinon or
juniper - infrequently
found below those trees.
Desot small numbers
on bare slope, partic
in rabbit weed area.
Mel arides were fed
in sage.

✓ $2069 + 40 = 2109$

✓ 26.77 Prismatic Plains, ^{IX-311926}
Coconino Co., Ariz. 4500 ft.
About 6 miles on road
toward Fredonia from
26.78 Sage and a little
joint cactus, most thick
locality - all taken
in small patches
of short yellow grass
along upper border
of small canyon.

Trim yellow legs & occasional
Red bonin arealis very
few in sage 1H

Hesperot 1H in composite
Cordillarius 4 a few in
short dry grass

Devil luna flew into
automobile on adobe
section w heavy sag
on each side.

$$2107 + 15 = 2124$$

✓ 26.78 Base of Shinarump
Cliffs, 7 mi W of Fredonia
Ariz. 1X.3.1926. 4400 ft.

Gradual draw of
extreme desert type
reddish sandy soil
some dry yellow
grass and occasional
blue-gray rich sand
scale.

Trim latic few in
this area

Orphica 3H in grassy
area, Very numerous
makes a clucking sound

Taking wing,

Acrolophus 1♂ 1♀ H from
blue-gray shed-scale
only ones seen after
careful search for this
unusual type

Mel boudit gr? 1♂ 2♀
same 3H.

Agnost v large, mod
common in grassy
areas.

Opelia 2H only ones
seen, same.

Derot in bare spots
occasional.

Terre strepera 1H,
3 mi from Fredonia
in rabbit weed scrub
area, no other orth.,
at 4500 ft.

Unusual gigantism
shown by almost all
sp. found here.

$$2124 + 30 = 2154$$

✓ 26.79 Pipe Spring,
Cocconino Co., Ariz
IX.3.1926 4900 ft.

Gradual slopes covered
w much dry yellow grass
and composites - Soil
reddish, sandy

Artemisia few

Desert annual in bare
spots:

Trine strepera 2 very
large, only ones seen
Agave mod common
in grass.

$$\begin{array}{r} 15 \overline{) 2171} \quad \text{L} 145 \\ \underline{15} \\ 67 \\ \underline{60} \\ 71 \end{array}$$

✓ $2154 + 17 = 2171$

26.80 Base of Vermilion
Cliffs, 11 mi W. of Pipe
Spring, Cocconino Co.
Ariz. ~~5200~~ 5100 ft. IX.4.1926

Thly sloping plains
of reddish sandy
adobe with thick
cover of dry yellow
grass and frequent
clumps of artemisia

(shad scale = *A. canescens* (Pursh) ^{Gamble})

Metator pardalines locally

● common in bare spots
in area of heaviest grass.

Geolophus common and
widely distributed in shad
scale.

Cordilleria occasional in
grass.

Hydrophilus 1H, only one seen,
in area of heaviest grass.

Cerypha 3 seen.

Trin. streper common

● & generally distributed

Neotoma Prova same.

Aeneotettix same.

Aulocara elliotti very few
in bare spots in heaviest
area of grass all H.

Aulocara junioratum same

Parabasilus 1 WWF

✓ Paropromela rogo locally
in small numbers in
grass.

● Centropus 1H driven out
from under shad scale,
much digging about roots
of this species failed to reveal more.

Desotumma common on bare spots in less grassy areas.

Trin latic very few on bare spots in more grassy area.

$$2171 + 247 = 2418$$

✓ And about 14 beetles

26.81 Same but 13 miles W and 5400 ft.

Sandstone outcrop a little grass, much composite etc. Very and all with much less and but added

Mustela plattii rubra in small mass in scanty vegetation above sandstone outcrop.

Trin cincta modesta

Agrostis few

Desotumma ~

Cnidellavus 1H

$$2418 + 20 = 2438$$

26.82 ✓ mesa just east of
mt. Murphy, Arizona
about 3 miles south
of state line. IX.4.1926
Summit w juniper &
piñon, ground generally
bare, a few "juniper"
clumps of *Ephedra* &
rabbit weed.

Psychoneustax 2H only
Orthoptera in this area,
beaten from "juniper"
Elev 5400 ft (verify
if possible).

$$✓ 2438 + 2 = 2440$$

26.83 Hurricane Ledge above
Hurricane, Washington Co.
Utah. IX.4.1924. 3700 ft
Very dry area, desert brush
& frequent cholla. Nothing
seen

~~Pseudoscorpion~~ Parabacillus
1H, resting, sprawled out on
top of small rabbit weed
Agrostis 1R

$$2440 + 2 = 2442$$

✓ 2684 Virgin River, at La
Verkin, Washington Co
Utah. 2750 ft 1x.4.1926

Schistocerca thosstone 1#
in arrow-wood of river
bottom, all H
Horesidotes, occasional
but mod abdt in one spot.
Only in coarse dry yellow
grass growing in large
clumps between rocks on
steep lower slopes of canyon.
Extremely alert and jumping
and flying very much
more swiftly than is
usual for a grasshopper.
Mell 19# in green grass &
brush of canyon bottom.
✓ Paropomeula 19# as Horesidotes,
only one seen.

Ellips all H. On damp sand
at river merging where a
small stream joined it.

Extremely hot locality &
little Orth. Generally,
Covillea were with it, Kia
grows up to 3500 ft on
Hurricane Cliff.

$$2442 + 25 = 2467$$
$$\text{best day so far } 2171$$
$$296$$

$$\begin{array}{r} 16 \overline{) 2467} \quad 154 \\ \underline{16} \\ 86 \\ \underline{80} \\ 67 \\ \underline{64} \end{array}$$

✓ 26.85 Virgin river below
Rockville, Washington
Co. Utah IX.5.1926 3250 ft.

● Conoza very scarce
on sand beside river.

Durotiumma common
on sandy adobe flat
covered w low russian
thistle.

Haresidotes on basalt
boulders of steep hillside
w very little dry yellow
brush between 1 ♀ WWF.

✓ $2467 + 27 = 2494$

● 26.86 Zion Canyon, 1 mi
below Springdale, Utah
IX.5.1926 3700 ft.

Dry slopes below cliffs
with rabbit brush, desert
veg & no grass

Trum stygema 1 ♀

Asperotettix ced fair R
from low rabbit weed
Asolophus 1 ♀ same

$2494 + 4 = 2498$

! large 2071.

26.87 Lower Zion Park, Utah
IX.5.1926. Steep hillside with
oak clumps (small holly
like leaves) and dry grass
& vines. 4000 ft.

Mel. canonicus 1♂ H there
Trine cyathigerus all H, same
flats near stream with
cottonwood & (poison oak like
maple leaf) trees, high
yellow grass and high dry
asters.

Mel. phaeolepis gr locally
much common. Flew
vigorously, but were
very easy to take, due
to a habit of alighting
on a grass or other stem
rather than on the ground
and were thus easily swept
into the net.

Conoza common in bare
spots.

Mel. atlanticus very few as
yet gr. 2H

Mel. grahami very few
as phaeolepis

Mel. yarrowi common in
rich green leaved vines

of canyon bottom, nowhere
else at this locality.

$$2498 + 53 = 2551$$

● And 10 bus bugs

✓ 26.88 Upper Zion Park, Utah.

IX. 5. 1926 4700 ft.

Canyon bottom with
oaks, cottonwoods & B. leaf
(maple?), undergrowth
dry weeds, plants & saplings
& oak scrub.

Mel. canonicus gr. very
common & gr. dist. thru
dry weeds, undergrowth.

● Particularly easy to take
as they usually flew up
into plants instead of over
the ground.

Mel. yarrowi mod. com.
in same, partic. about
green vines etc.

Schistocerca 2H very few
there. Alert and often
flew consid. distances
alighting up in the trees.

● Acraea latea gr. common
in saplings & partic. in
scrub oak w. broad large
leaves.

Diapheromera, 171#¹, 11R beaten
from broad leaved scrub
oak - no more after much
work. Dark color at bases
of funora, partly the cephalic,
striking.

Microcentrum rhombic 17#
beaten from cottonwood sapling
Also

19 M. differentialis one found
of alfalfa field at
~~Rockville~~, Washington Co.
Utah, ^{Springdale} 3750 ft.

$$\checkmark 2551 + 103 = 2654$$

2689 One mile north of
Toquerville, Washington Co.
Utah 3500 ft. 1A. 5. 1926.

Area of low sand dunes,
moderately covered with
vegetation, between hills, on
up slope from Virgin River.

~~Helianthus~~ good sized colony
on pure golden sand where
there was scarcely any
vegetation except Helianthus
plant. Only one or two
found on bare sand
elsewhere R16 H13 WWF4

Agrostis 1A there

Trim cristata in ~~small~~
moderate numbers over
wider area of sand, unusually
numerous for the species.

Derotumma 1 WWF

Recautus 3 WWF

Mel canonicus gr numerous
in drooping sage (June 26.66)
flew with great speed for
some distance to other bushes
and extremely alert in
great heat of afternoon.

Silanchetia 1H on bare
light pine sand. 17/2734 161

$$2654 + 80 = 2734$$

$$\frac{2467}{103}$$

$$\frac{11}{102}$$

$$\frac{14}{14}$$

2d or 3rd day 2.67

✓
26.90 One mile south of Leeds,
Washington Co. Utah 3200 ft.

Lignotellus very few stirred
before & for a short time after
dark in Covillea 1H. 1X.5 1/2

Cycloptilum 13¹H numerous

stimulating before at dusk
and for a short time after

dark, thereafter silent
1H, located near ground,
stimulating, on stem of
Covillea. 1X.5 1 1/2 H beaten from

dry desert brush without
leaves, after much work

Stagnonema 10th A beaken
from rabbit brush 1X.5

~~Stagnonema~~ Parabacillus

2nd same.

Hesperotettix lw very scarce,
same. 1X.5

Aecanthus same. 1X.5

Agrionotettix very scarce
on hillside below desert
brush. 1X.5

$$2734 + 17 = 2751$$

✓ 26.91 Harrisburg, Washington
Co. Utah 2950 ft. 1X.5. 1926

Stream bottom with heavy
growth of arrow-weed

Urtica verbascus gr - common
in arrow-weed.

Aecanthus R from rabbit brush

Hesperotettix R same.

Conozoa mod common in
bare spots.

$$2751 + 69 = 2820$$

✓ 26.92 1 mile NE of
Washington, Utah 1X.5
3000 ft.

Coniaria 1♀ in river
wash near its usual
beach but on gravelly

sand, not fine sand
as is almost always the
case.

● Trine strema 1H only
seen on bare sandy
adobe or desert wash
among brush.

Mel bowd gr. very few
in desert brush see flat
Aziro two, staid in
leafless desert brush, 1
taken by H.

Cycloptilum 1H beaten
from desert brush.

● Trine crist 2H in
sandy gravel of wash
Panop 18 19H 17R in desert
brush, scarcely any flowers.

$$2820 + 15 = 2835$$

✓ 26.93 Middleton, Utah 18.6
3000 ft.

Peridulus are rough
bare ^{leaves} altrali ground of
desert flat.

● Xuconia 1H, only one
seen, same.

Insara 1R beaten from
arrowweed close ~~to~~ ^{well away}

Schistocerca 1st same
Aphyllula R few in salt
grass area on bottom of
arroyo.

Asperotettix 1 R beating
Oenanthus 1 MW 7

✓ $2835 + 25 = 2860$

26.94 St. George, Utah 1x.6
2700 ft?

Mel. nrb in arrowweed,
very few

Conoz occur on bare
ground of arrowweed wash
Tripid on bare ground
of Cavillea flat; scarce
Trin. crist same.

Schistoc sever few in arrow
weed

Dec. 19

✓ $2835 + 13 = 2848$

26.95 Santa Clara Creek
above Santa Clara,
Washington Co. Utah
1x.6. 3000 ft.

Sch. 1st in bushes
along stream.

~~Helastus~~ 1st on bare
sandy soil near stream.
Oryphilella very few in
salt grass.

Dec 2R

Conocephalus 1st few in ^{low}
grasses & plants growing
in water.

Hesperotettix beatus

Tarantula 1st on edge
of Cono area, white
alkali near mud.

Uel canonic 1st in desert

brush.

$$2848 + 11 = 2859$$

26.96 west slope Beaver
Dance Mts., ~~Washington Co.~~ ^{Mojave Co}
~~Utah~~ ²⁷⁰⁰ ft 1X. 7. 1926 Ariz.

Derot. delicatulum mod
nos on its usual bush.

Tanacoreus 1st, same,
only one seen.

Protettix few in creosote
bush.

Uel tristis gr occasional
in several species of
low desert brush. A most
extremely active & powerful
jumping sp., but not as

much as usual this
cloudy morning.

Helictes aridus 2H only
seen near the stones &
pebbles of bare wash.
Acanth. diorina 2H seen
near stream - where a very
little short yellow grass
grew.

$$2859 + 33 = 2892$$

✓ 2 beetles

26.97 Beaver Dam, Mojave
Co. Calif. 1450 ft. 1X.7.1926
(not Turnbull Quadrangle)

Bank growth of arrow-
weed, Brille, cottonwood
etc. along stream

Asphulella small ones
in salt grass beside stream

Neurobees many juv, &
two ads, in Wigwag dead
leaves along stream

Conozoa most common
in open spots

Insara 1 juv beetle from
high green plant
bordering the arrow-
weed, 1 ad beetle from

Tornillo.

Mel. Verb. gr. very
common in arroyo
weed.

Qu. from tall weeds.
Schistocerca found in
weeds, stream bottom.
all #.

Paratellus no juvs as
numerous.

$$2892 + 30 = 2922$$

26.98 Same, but see
bunch ~~750 ft higher.~~

Very sandy loam
with sparse yellow
grasses in small
scattered tufts locally
and a variety of desert
plants.

^{Fragaria}
Mel. cristata few locally
on bare very sandy
loam betw bushes
Mel. canonicus gr. very
few in desert brush,
usually found low &
for considerable distances
Lignot. H. very few
scattered in desert brush

mil. tristis gr. juv. in
desert brush, all juvs
here.

Boletus occurs in
creosote bush.

$$2922 + 32 = 2954$$

✓ 26.99 Virgin River at Road
Crossing . . . mi. west of
Bunkerville, Clark Co.
Nevada. 1200 ft. 1X.7.1926

Acidop ariz 1R others H.
common in marsh
growth of Salicornia
beside river. This is
is extraord active. It
flies often some dist
from bush to bush but
always usually plunges
downward at once, making
it much more diff
to capture than other
mil. herbaceus in large
numbers in arrowweed
near river.

Silvestre common
but local in arrow
weed along river.

Figwort mod common
in creosote bushes just

back from river. all H
Ancoria all H, small
mos locally on bare
pebbly washes near
river.

Dicot delic 1H, same.

Helianthus H, same.

Orphulella few in salt
grass on edge of river
Boottia in creosote bush.

Dusara & consuetus 1R
beaten from arrow-wood.

Sythotyle 1H on pebble
strewn wash near
river.

Conozoa locally common
on bare ground near
river.

19) 3007 | 158

$$2954 + 53 = 3007$$

✓ 26.100. Same, Bench 300
ft above river 1500 ft.

Bare sandy wash,
numerous bunches of
plants found only
in hot desert

Sythotyle 1R on sand
of wash.

Boottia H beaten from creosote bush

✓ Panoprona occasional,
all H.

Well trusting juv in cut
sps of desert brush, extremely
active & vigorous in great
meats.

Not delic 19 H.

✓ $3007 + 11 = 3018$

26.101 Msa SE of Mormon
Mts. Clark Co. Mo. 3500
ft. 1X.8.1926

nothing in a number
of large but well
scattered tree yuccas

Lignotilla small
nos in creosote bush

✓ Panoprona juv
one extensive sandy
plain with coarse,
dry yellow grass, &
else there though a
favorable appearing
locality

$3018 + 9 = 3027$

✓ 26.102 Mundale, Clark Co.
Mo. ix. 8. 1926 1700 ft.
River flat salt grass, ^{sarcobatus}
• Tornillo, mesquite. Most
unusually poor for
collecting.

Trepidulus small mos
locally on bare adobe
betw Sarcobatus & salt
grass

Aucouma 1R on low mud
hills w a little creosote
bush and desert brush

Opelia 2H only seen
in salt grass

• Acrolophus 1R desert brush

Conozoa H, very few, as
Trepidulus.

✓ $3027 + 21 = 3048$

26.103 Logandale, Clark Co.
Mo. ix. 8. 1926 1400 ft.

Amphitornus large 2♂ 3♀ H
In small salt grass area
on dry soil where there
were interspersed another
• low broad leaved plant
Opelia common in salt
grass area.

Araphulha same.

Asiophyes ariz common
in ~~salt~~ sarcobatus &
adjacent bushes.

Acronia few on dry
bare ground of arroyo
and adjacent hill slopes
Syrtothyle 18 R at base
of hill slope w several
few creosote bushes and
desert brush.

Trine cyanymanis desert
type (note diff wing band)
18 same.

Dusona & consuetipes 1 was
Signoretella mod nos
in creosote bush.

Mel. alvareus very few
in thickest, nearest
tangle of sarcobatus,
arrow-wood etc.

Conozoa small nos in
all bare flat spots.

$$3048 + 77 = 3125$$

2 beetles 1 mutilated

Atriplex nymphaea tra presae
& fairly plentiful were

✓ 26.104 St. Thomas, Clark
Co, Nevada. IX. 8. 1926
1250 ft.

● Molophilus ariz as 26.103

Sigurotettix " "

Aleconia " "

~~the~~ Helicostes arideus 119 on
bare adobe of wash.

✓ Paropromala 1H in desert
brush.

Tythotyle 2H appar slow
but very wary and usually
flying considerable distances.
When it sees that it is
followed it will sometimes
fly and then climb quickly
between pebbles where its
concealment is wonderful,
allowing very close approach
and not flying if a net
is swept over it, but instantly
thereafter. In this way the
insect is certainly vastly more
sagacious than most Orth.

Lusaca cruciatipes 2H, the

young feed up from a
tall composite, the brown
beaten from a coarse plant
like arrow-wood which had
many brown leaves on it

Asperotettix viridis small
numbers in a tall stiff
composite.

$$\begin{array}{r} 20 \overline{) 3183} \quad \underline{159} \\ \underline{20} \\ 183 \\ \underline{180} \end{array}$$

$$3125 + 58 = 3183 \quad \begin{array}{r} 183 \\ 180 \end{array}$$

✓ 26.105 Muddy Creek Canyon,
Clark Co. Nevada IX.8 & 9, 1926
Camp at foot of limestone
cliffs beside creek,
at light at night, IX.8
Anisoma integra 2♀.

Numobius 1♀

Trine pallidip 1♀ (not kept)

Dryllus 1♀

Exumoblatta 1♂

Gracely Hills, bare except
for creosote bush and desert
brush. IX.9

Anisoma fed on bare ground
Acroplus common in
sarcobatus (large, well
leaved) beside stream)
Boolettix very scarce in
creosote bush.

$$3183 + 15 = 3198$$

26.106 Escarpment above
Virgin River toward Mormon
Mountains, Clark Co. Nev.

2200 ft. 1x.9

Derot delici 2 on bare pale
soil in wash H

Boottellia R1 Beaten from
creosote bush.

Ligurotettia mod mos
stridulating in same, R1, H1.
a very sterile spot:

$$3198 + 5 = 3213$$

✓ 26.107 Alluvial slope of
west side of Beaver Dam
mountains at state line
Washington Co. Utah, 2250
ft. 1x.9 This huge alluvial
slope is here in many
places well supplied w
tree yucca.

Derot delici mod common
in the bush. It usually
rests on, flying off to
bare ground when
approached, but if
followed usually
attempting to return to
the same kind of bush.

The commonest of the
species peculiar to this
desert region.

Heliastur aridus 1H in
desert wash.

Trin pallidipennis frequent
and generally distributed.
Aymor ^{areas of} very few in very
dry wisps of grass widely
scattered along wash -
could be unusual color?
Mel tristis ^{4822H} few in ^{low} gray
brush bunches of, along
wash. Both sexes have

astounding saltatorial
powers and the males
further are exceedingly
alert & restless - during
the heat of the day they
are so active that it
is most diff to collect
them. They often spring

to the ground but usually
back to another bush.

Lepus 2H strid on
mesquite bushes, few here
Botellia few, beaten

from same
Lepus 1H, only one
seen - jumped from D. dila bush

Trichostema 1R one
desert wash, only one seen
 $3213 + 44 = 3257$

26.108.

Canyon,
Beaver Dam Mountains,
Washington County, Utah.
(West side) 18.9.1926 4000 ft.

Upper limit of creosote
bush. Mountain side
covered with a very dry
gray brush and areas of
a stiff dry composite
with scarcely any leaves.

Hesperotettix scarce in
the latter.

✓ Paropromela 1R from
dry yellow grass.

Sauvages 1H from
dark gray brush. on
steep mountain slope
at 4100 ft - At this point
juniper was coming down
in some places and

Tree yucca up in the
warmer dryer spots.
Mel. tristis few in gray
desert brush 1R. 18.9.26.

Adiantum 1♂ 1j H on bare
wash.

Pseudoserpylla 1♀ R,
beaten from dry dark
gray brush.

Dusara covilleae 1♂ 1♀ 1j
R. beaten from creosote
bush.

Stagnom. californicus 1♀ R
beaten from creosote bush.

Trich. yellowleg 1♀ H, on
bare pebbly spot of
hill slope ⁴⁰⁵⁰ ~~4100~~ ft.

$$3257 + 27 = 3284$$

(Tanaosaurus in beetle paper)

$$\begin{array}{r} 21 \overline{) 3284} \quad (156 \\ \underline{21} \\ 118 \\ \underline{105} \\ 134 \\ \underline{126} \end{array}$$

✓ 26.109 Beaver Dam Mts.
Washington Co. Utah.
1X.10.1926 Camp 4600 ft.

Stagnom. calif 5♂ came
to light at night 1X.9

Trich. cyanipennis very
few 4600 to 5100 ft; local.
usually on steep mountain

slopes where there were
limestone outcrops or
hills of fragments. *Juniper*
zone with much blackish
brush.

Mel. near canonicus very
scarce in the blackish
brush 4600 ft.

Mel. tristis very few in
blackish brush in area
where there was quite a
little dry yellow grass on
steep mountain slope.
5000 ft.

● Descauthus 1 R 4650 ft. beaten
from juniper

Yucca very few on
bare ground under blackish
brush and in grassy area
4600 to 5000 ft.

Hesperotettix beaten from
very dry yellowish conifers
4650 and 5000 ft.

Mel. alba? 1 R in
plain of composites, very
ground - nothing else
in this locality. 3800 ft.

● Ureus minimus all R
in rocky borders of
Santa Clara creek in

Shivwits Indian reservation
3000 ft.

Psychonastax 8 R 1 H. 26
beaten from "juniper"
(Mountain malojany?)
(plant 26.109 Purshia glandulosa
Curnam)

$$3284 + 60 = 3344$$

26.110 St. George, Washington
Co. Utah. 11.10.1926 2500 ft.
Plain of Virgin River.
Low Russian Thistle on
bare reddish adobe,
wetter areas with much
salt grass, a high stiff
rabbit brush, Shrub
sage and many Lewisia
plant 26.110 (=

).

Pseudotsuga in tops of
high stiff coneposile.

Conyza common on
bare spots in salt
grass.

Trepidulus mod common
on bare sandy reddish
adobe where low
Russian Thistle grows.
Ancoria 20 1 H in large
Lewisia desert brush
(plant 26.110). Very scarce.

Acrolophus common, same,
acted just like arezonensis
(depaup could?)

• Mel sage brush gr. mod.
nos in large composites,
shad scale & plant 26.110
Spica common in salt
grass.

Arphulla almost a
numerous there

Recautus beaten from
composites.

Mel jun-rubra in

• Miller meadow
grasses of wettest sp.
Mel olivaceus, same
& in heavier brush,
very few

Mel. differentialis
same.

Azmeod only seen in
brush area.

$$3344 + 104 = 3448$$

$$\begin{array}{r} 22 \overline{) 3448} \quad 156 \\ \underline{22} \\ 124 \\ \underline{110} \\ 148 \end{array}$$

26.111 1 mi NE of Leeds,
Washington Co. Utah. 3500 ft
IX. 11. 1926

Stagnom. calif 5♂ at light.
in camp among junipers.
Desot. u. latic common
no

Acanthus fusc 1 at light
Hesperot 1♂
Agrotis 1♂ a very
sterile locality.

$$3448 + 30 = 3478$$

✓ 26.112 1½ mi n of Bellevue,
Washington Co. Utah 4100 ft
IX. 11. 1926

Flat region along creek
with much dry yellow
grass, quite a little sage
and some large clumps
of composites.

Hesperot very few in the
latter.

mel tristes common in
sage, unusually easy to
capture for this very active
species.

mel, sage brush mod
no in sage.

Mel atlanticus mod common
in dry grass.

Red & orientis extremely
scarce in sage.

Agrostis horum mod
nos in dry grass.

Trine cyanipennis 1H on
bare rocks among juniper
and a Holly-like shrub.

Parabacillus 2R beaten out
of yellow grass

Trine strepera mod nos
in sage & rabbit brush
area with some yellow
grass.

Leucanthus. 1♀

Paratettix wet spot beside
creek 1JR.

$$3478 + 76 = 3554$$

26.113 3 mi so of Kanab
out in Washington Co.
Utah 5300 ft 1x.11.1926

Dicot u. usgdenii found

on adobe covered w
low Russian Thistle

Mel tristis 2♀, well seen
in sage.

Acc 1 R feature from
rabbit weed.

Red b. orientis 1H only one
seen, in sage.

Gymnotetris very scarce &
only sp in dry yellow
grass.

A wretched locality

$$3554 + 12 = 3566$$

✓ 26.114 Cedar Valley, 5 mi W
of Cedar City, Iron Co, Utah
1X.11.1926 5400 ft.

Adobe flat in middle
of sterile sage-covered
plain.

Trin gracilis locally
mod common along
ditch in sage.

Trin latic one fairly
large colony on bare
adobe flat.

$$3566 + 18 = 3584$$

✓ 26.115 Escalante Desert, 1
mi W of Iron Springs, Iron
Co, Utah 1X.11.1926 5200
ft.

Gently rolling country
of tufts of yellow grass

and low russian thistle.
Soil very poor, dust &
pebbles.

● Trim streuma mod
numbers.

Aquilot occasional
Uel sage brush few in
russian thistle (a very
few stunted sage brush
to be found there).

Stenopleria 1 juv. ♀, quite
frequently seen in dry
yellow grass.

● Disosteira 1 ♀, only one
seen this sp. was found
south to town above
Kauab and town above
St Thomas. Used on this
trip, there beside roads
in cultivated areas (look
up towns & record).

$$3584 + 21 = 3605$$

$$\begin{array}{r} 23 \overline{) 3605} \quad 156 \\ \underline{23} \\ 130 \\ \underline{115} \\ 155 \end{array}$$

✓ 26.116 Summit, Snow C. Utah
5900 ft IX. 12. 1926

In tall stiff bunches of
flowering rabbit brush
beside dry stream bed -

Decanthus 4R beating
Hesperotellix sp. 1 ♀ H

$$3605 + 5 = 3610$$

✓ 26.117 Little Salt Lake, Parowan
Valley, Utah 5800 ft IX. 12. 1926

Trim virus very numerous
on white ground with very
fine plant covering on
edge of bare salt flat.

Spms taken as distinct
difference in general color
but not narrower wing
band was noted.

Cammeula 1R There

Mel. junco-huber mod

no same

Mel. mexicanus same

Trim gracilis common

locally on bare ground
through surrounding
sage brush area.

Trium Latei frequent
small colonies on bare
ground in salt grass
or rabbit weed area.
Opelia 1H in salt grass
there.

nestor Kiowa 1H same

✓ $3610 + 37 = 3647$

26.118 Buckhorn Valley, 4 mi
north of Paragonah, Garcon
Co. Utah. 5900 ft IX.12.1926

mixed sarcobatus, shad
scale, rabbit brush, sage
and muscivore thistle

Trium gracilis mod common
Acidophilus feed, 1R.

✓ $3647 + 11 = 3658$

26.119 South Ridge, 10 miles
so of Beaver, Beaver Co.
Utah. 6750 to 7000 ft. IX.12.1926

Trium cyanipennis mod
common on hillside of
dark reddish brown
volcanic rocks, pumbers
pinon & sage.

Med. sage brush ^{very few} 6800, 14
Trine strepera FWR no 10
Russian Thistle area at
foot of hill 6750 ft.

Psychonastar 124 - grouse
"Grouper" (utah macrogaster?)
at 7000 ft.).

Scantius 14, strid a loud
continuous trill at night
on top of sage brush

$$3658 + 30 = 3688$$

$$\begin{array}{r} 24 \overline{) 3688} \quad 153 \\ \underline{24} \\ 128 \\ \underline{120} \\ 88 \\ 72 \end{array}$$

Average 153 specimens
per day.

M. swillatus largest &
darkest ♀, Beaver, Utah
1x.13, slightly smaller
& paler ♀, Melford,
Utah 1x.13, both in
town